

FIG. 1

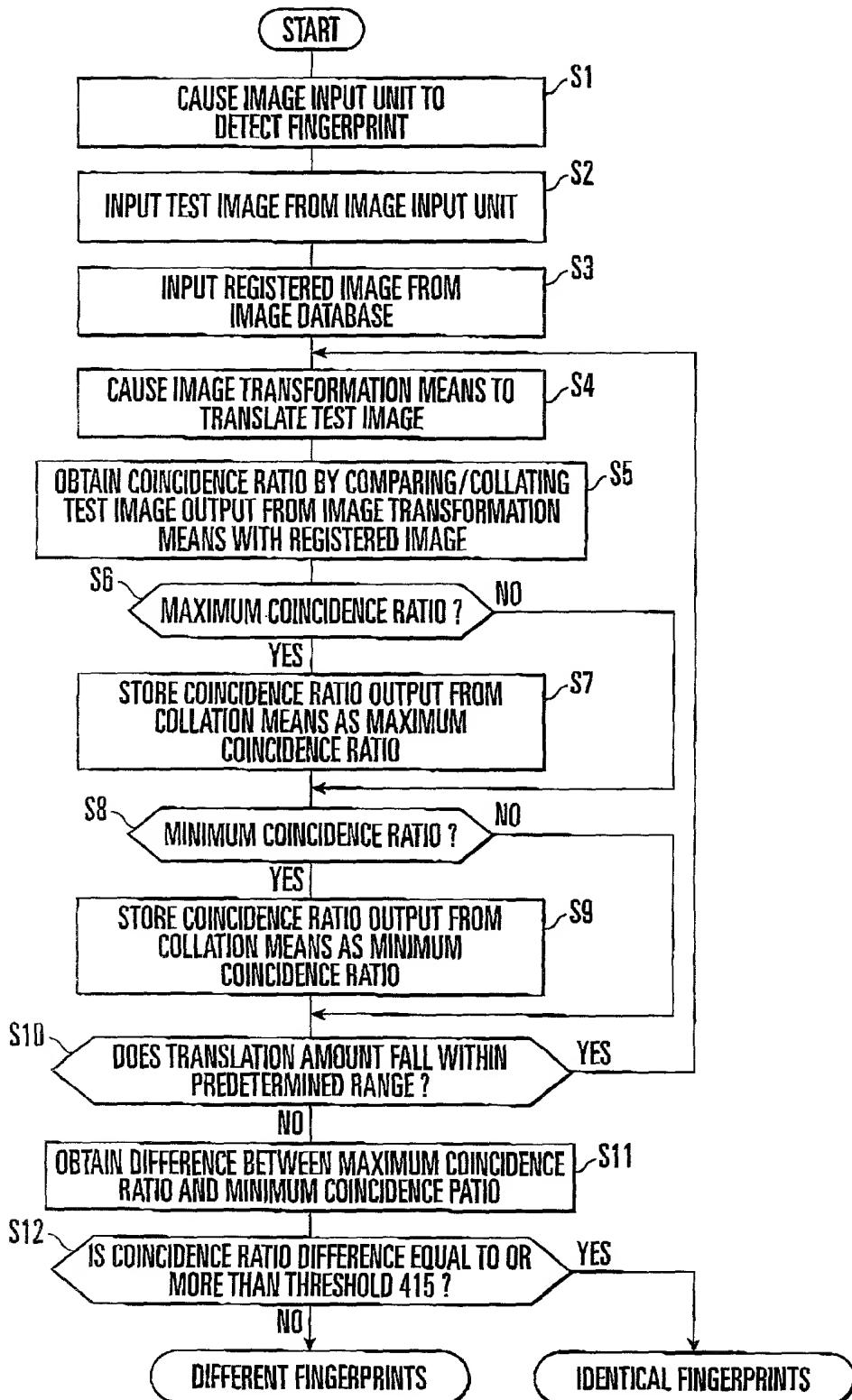


FIG. 2

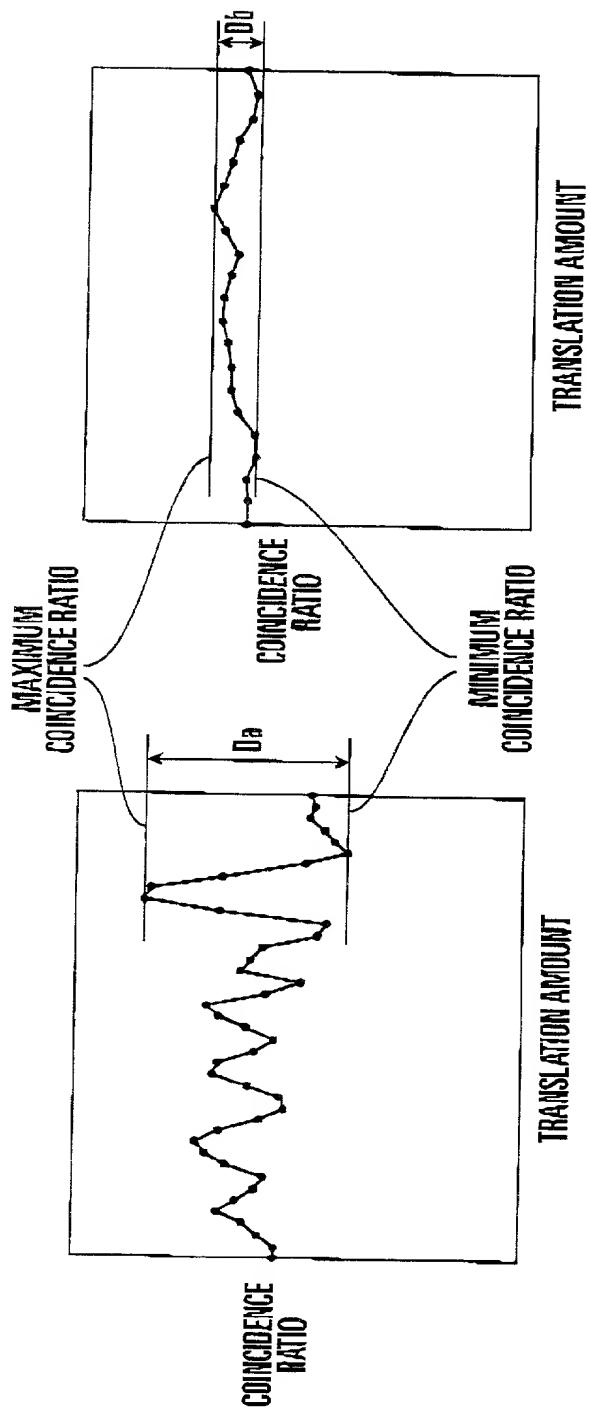


FIG. 3 A

FIG. 3 B

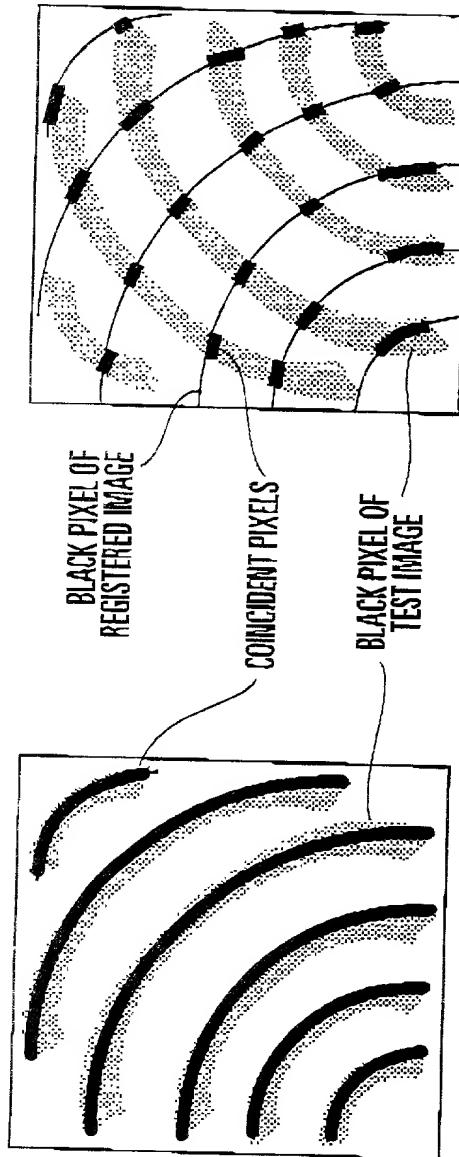


FIG. 4 A

FIG. 4 C

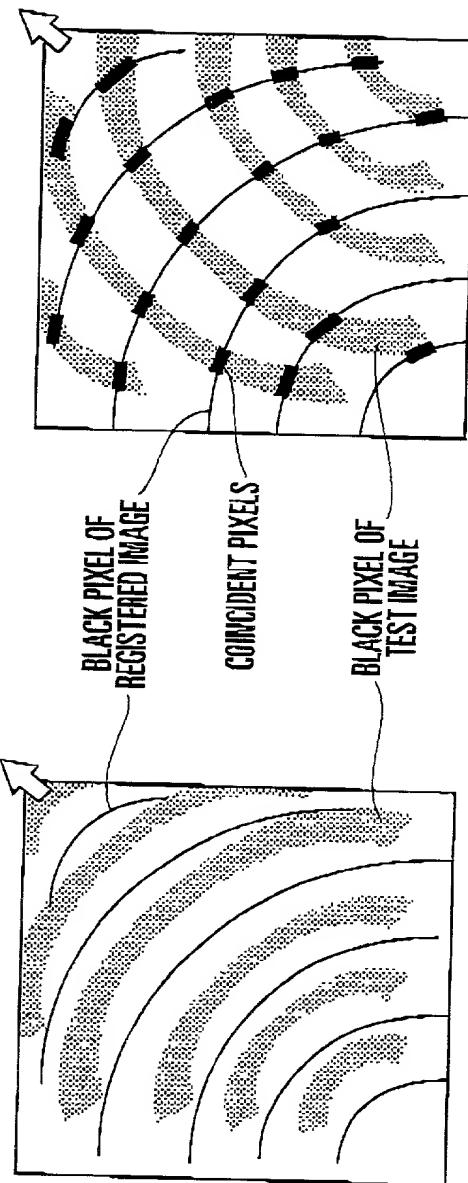


FIG. 4 B

FIG. 4 D

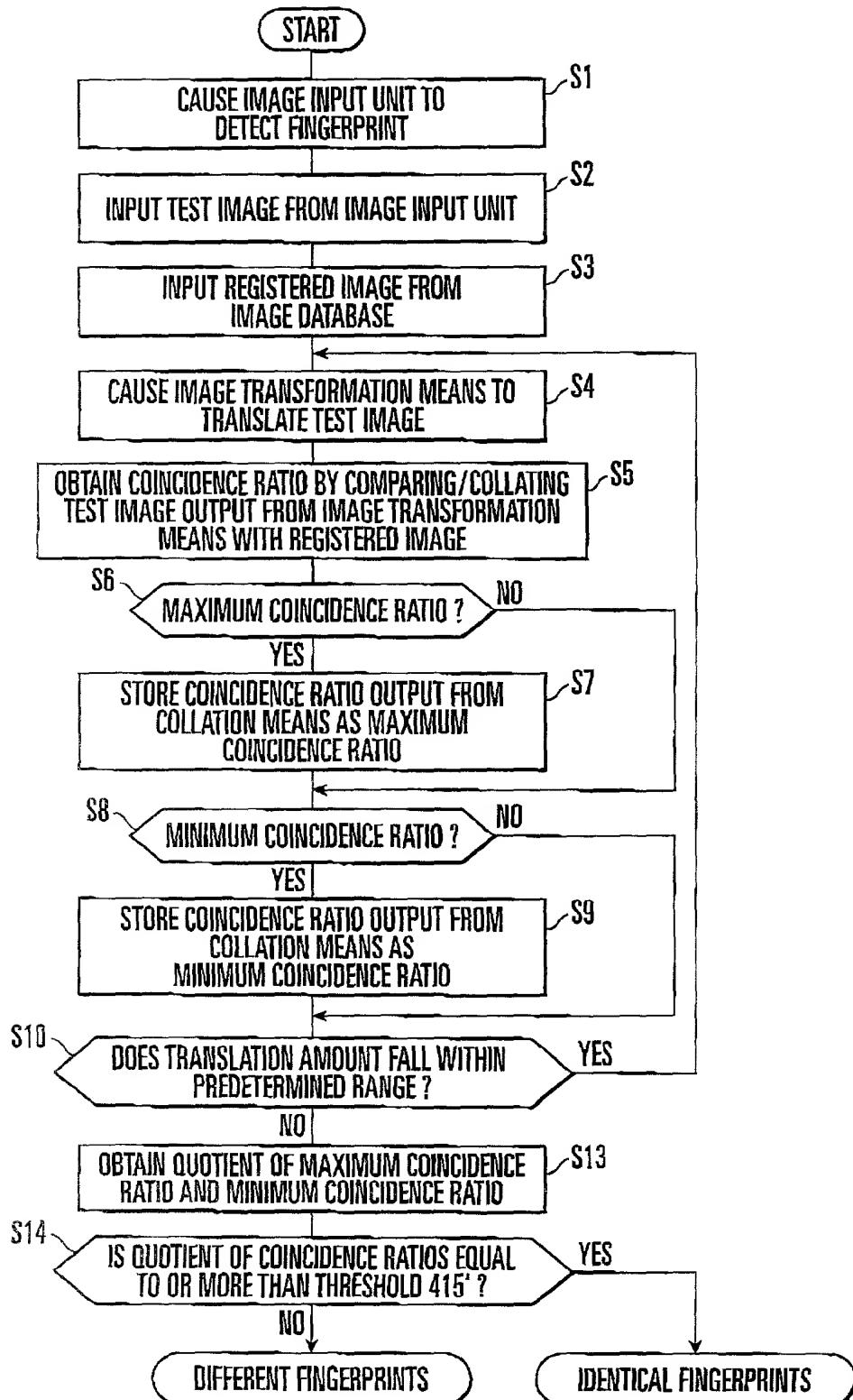


FIG. 5

00000000000000000000000000000000

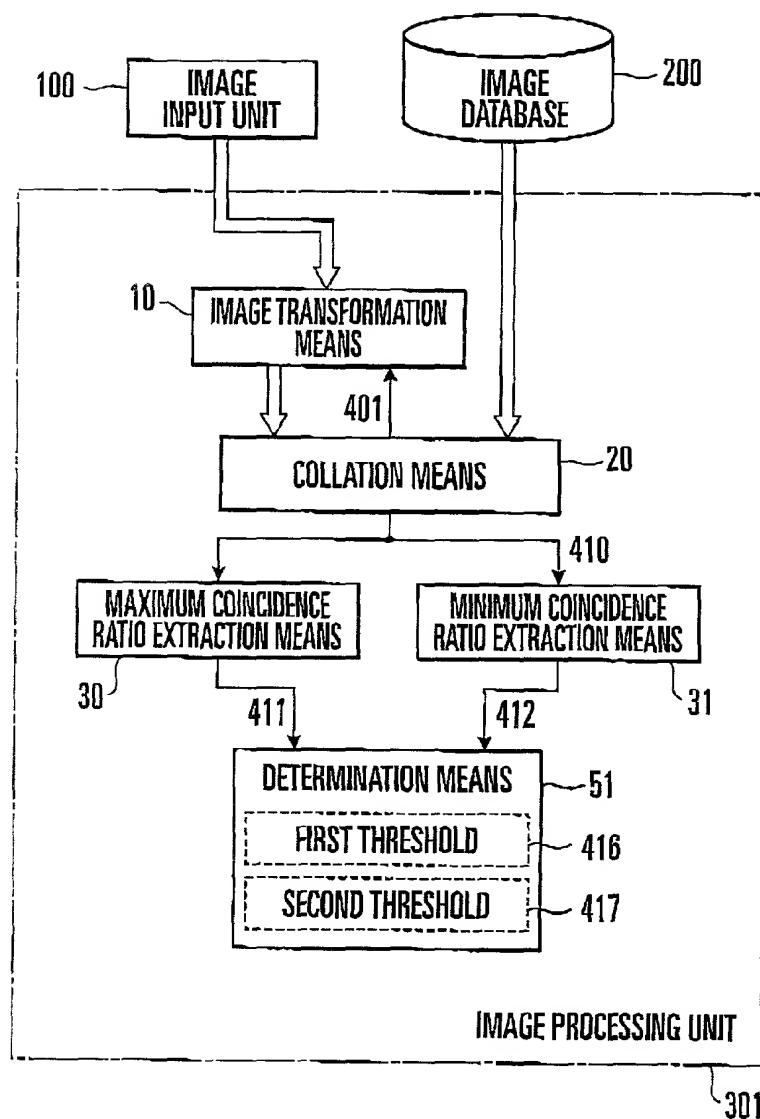


FIG. 6

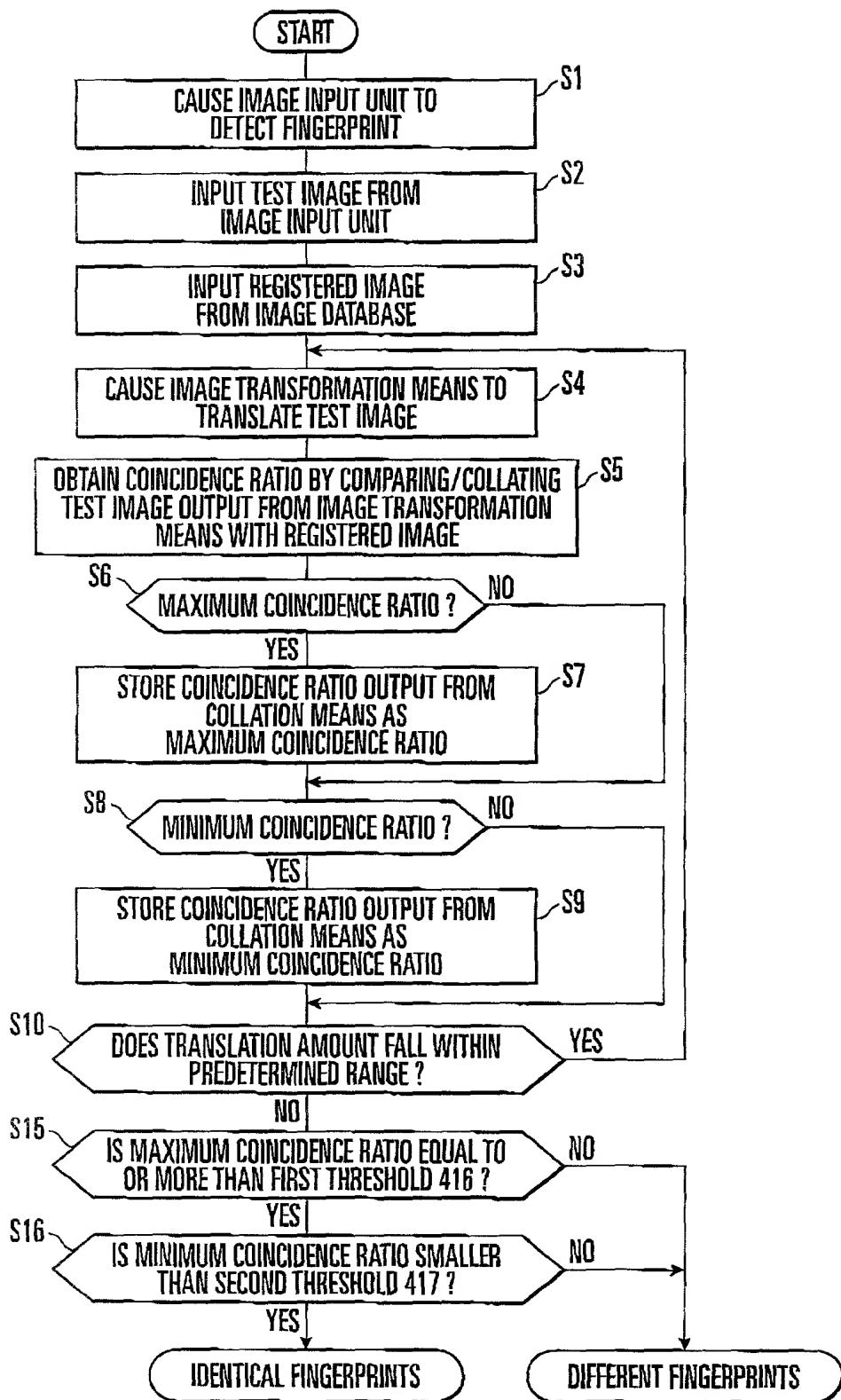


FIG. 7

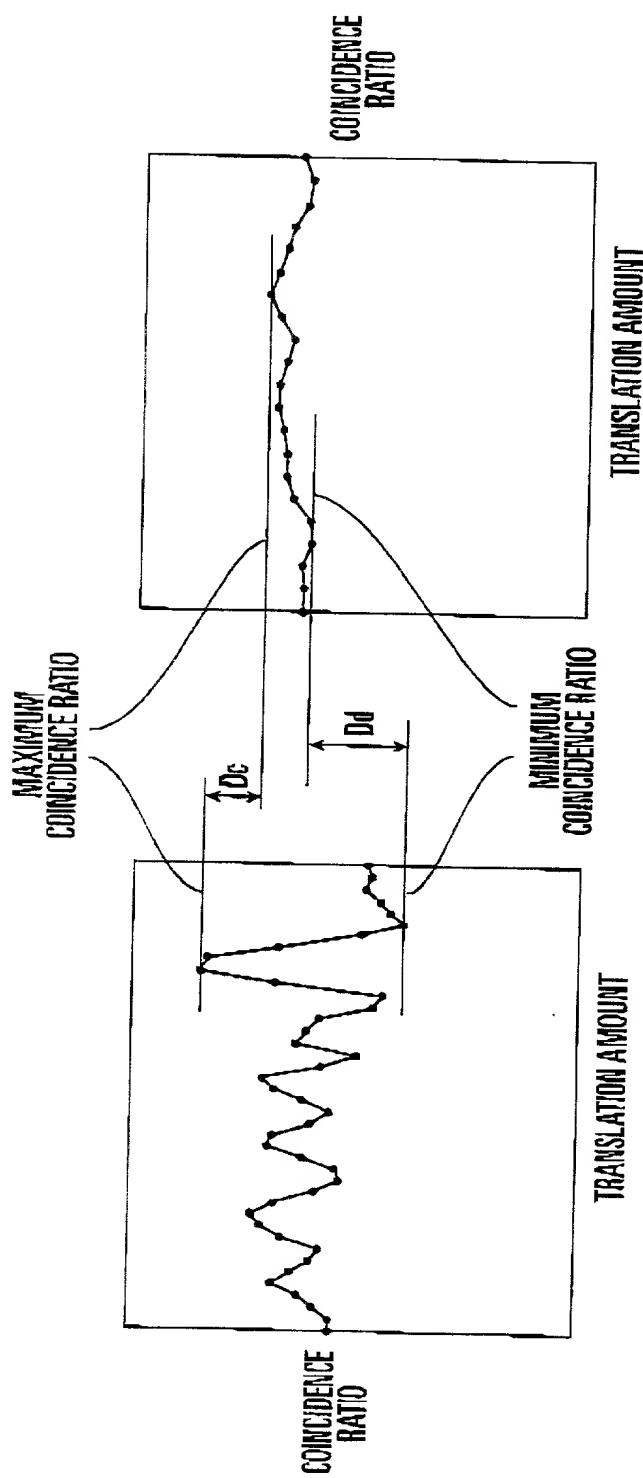


FIG. 8 A

FIG. 8 B

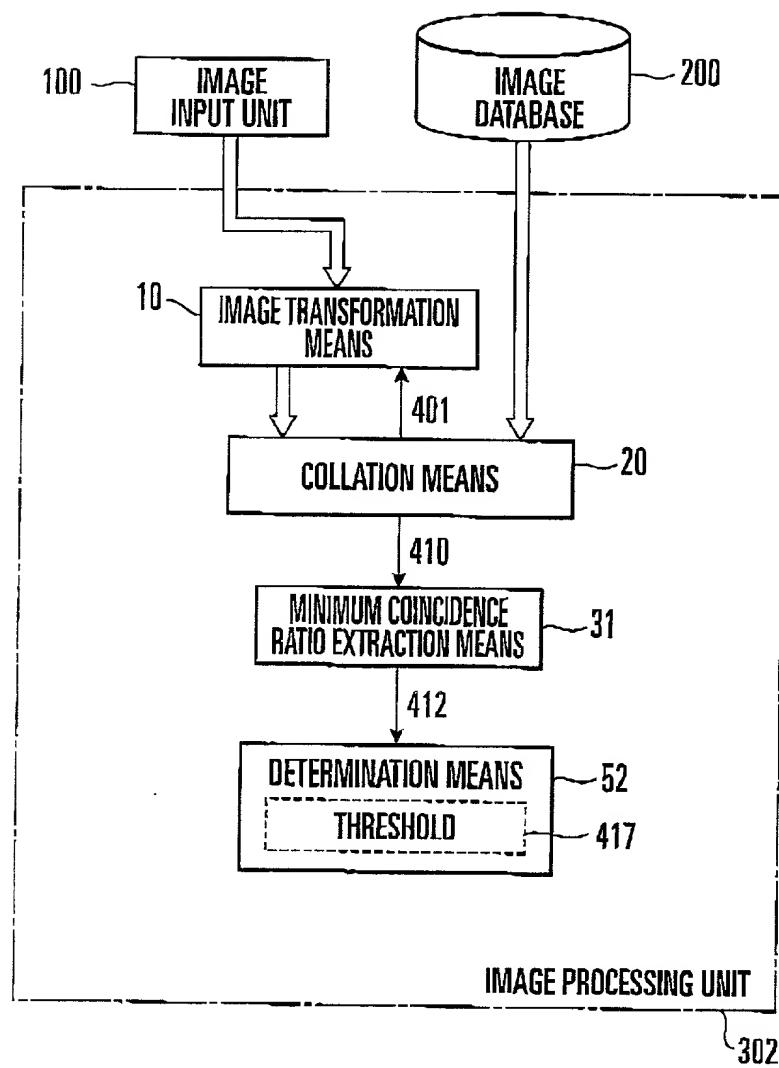


FIG. 9

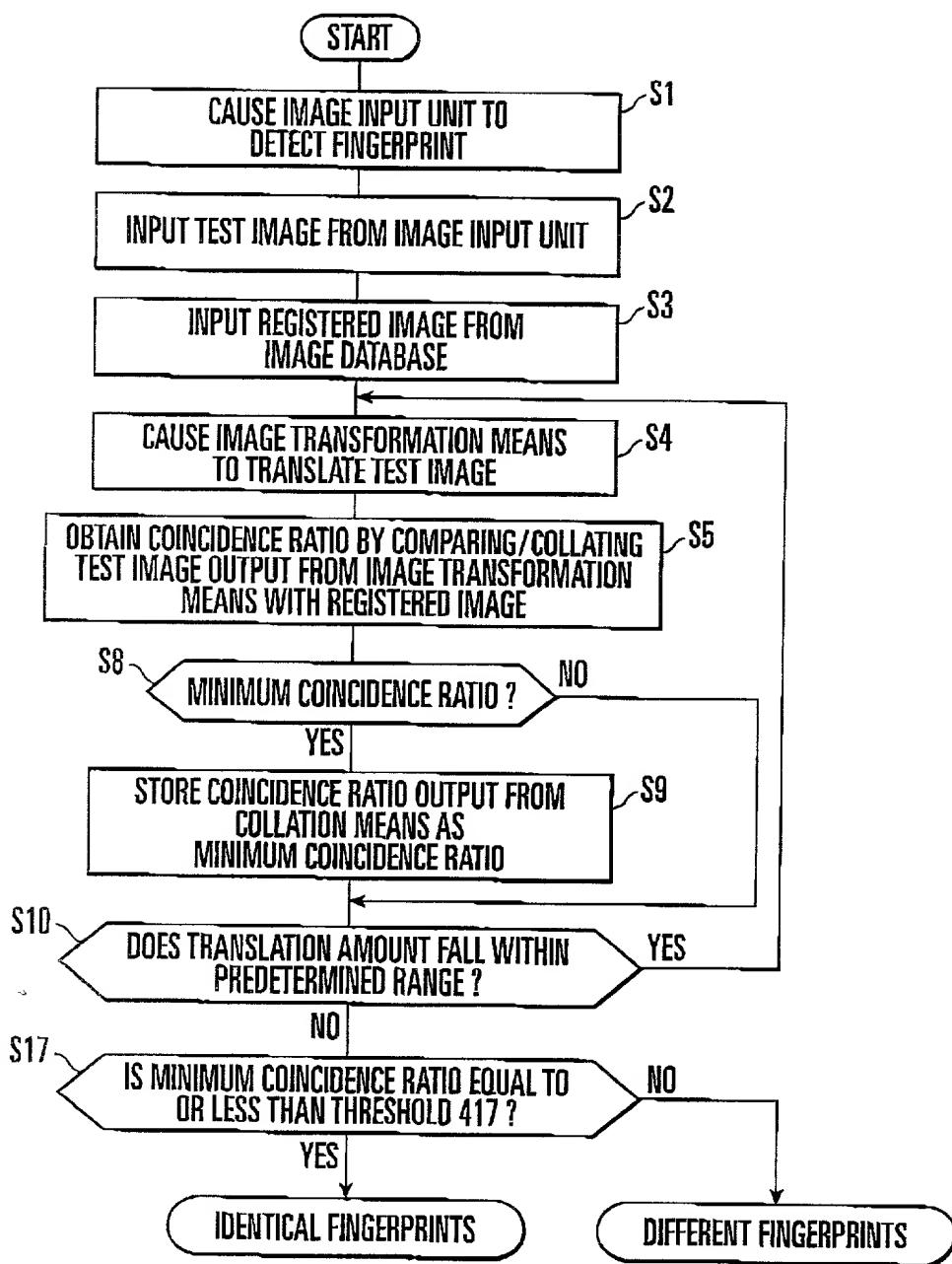


FIG. 10

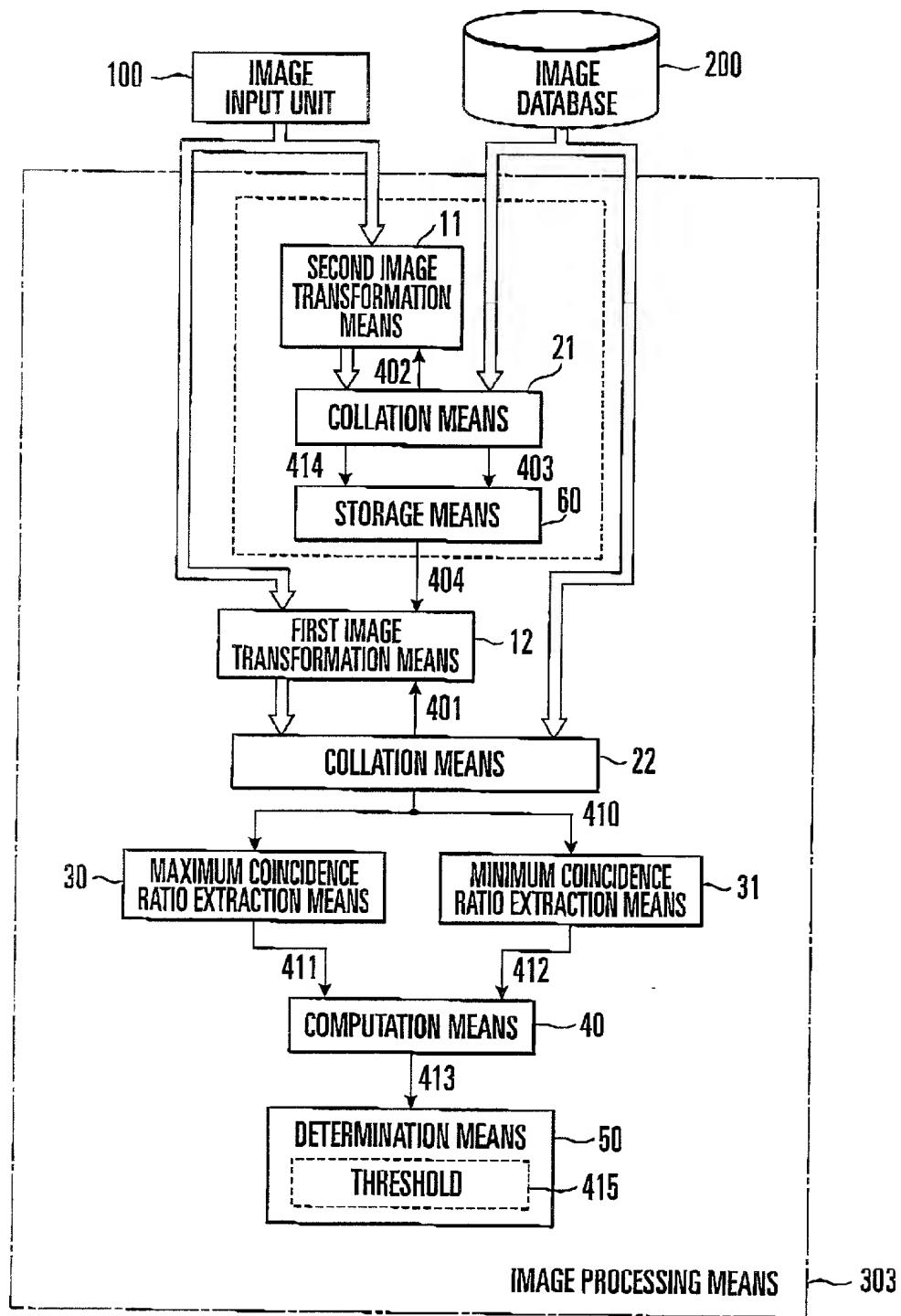


FIG. 11

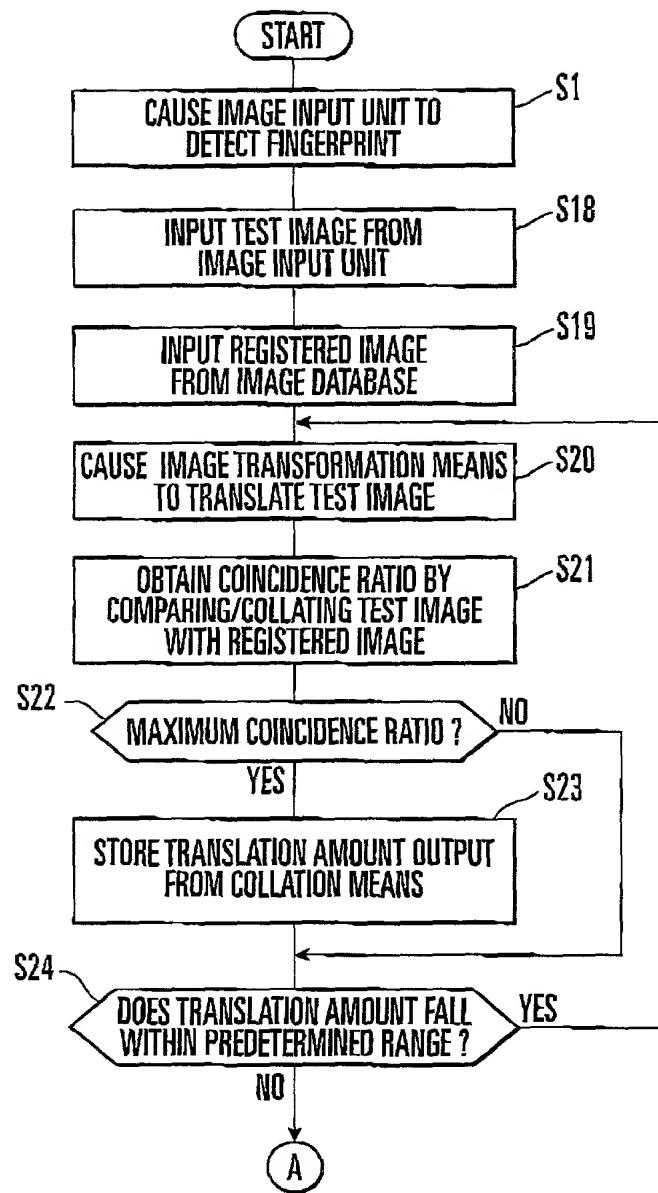


FIG. 12A

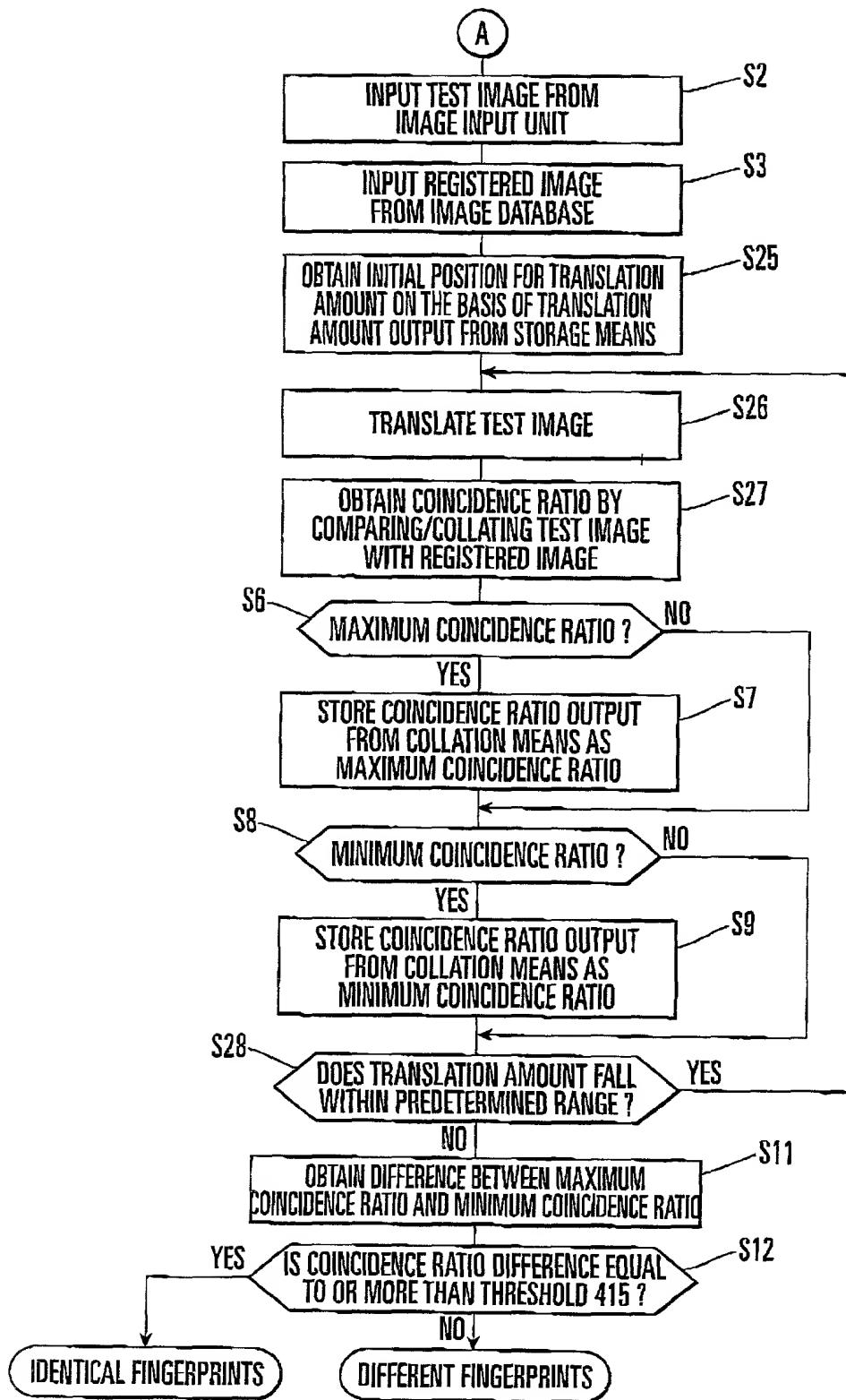


FIG. 12B

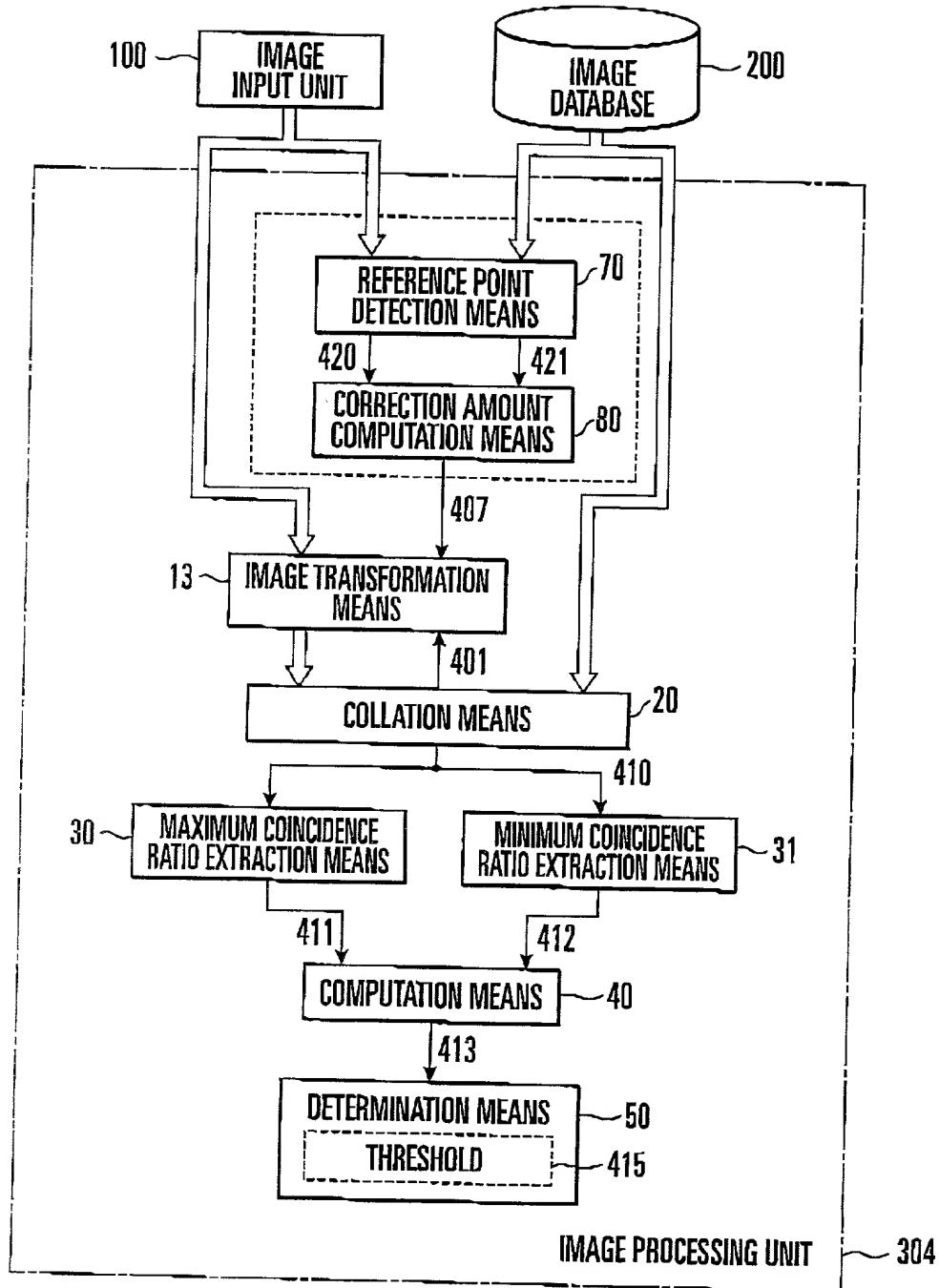


FIG. 13

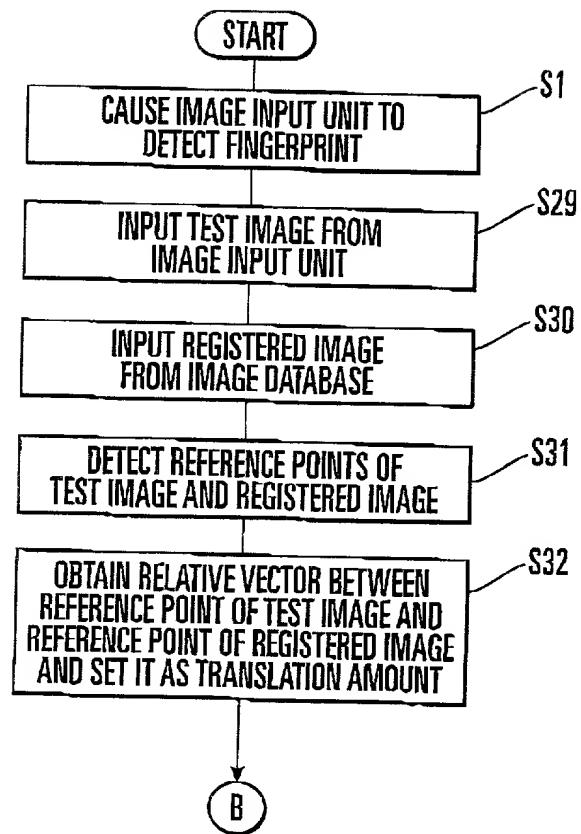


FIG. 14A

0953763349-050604

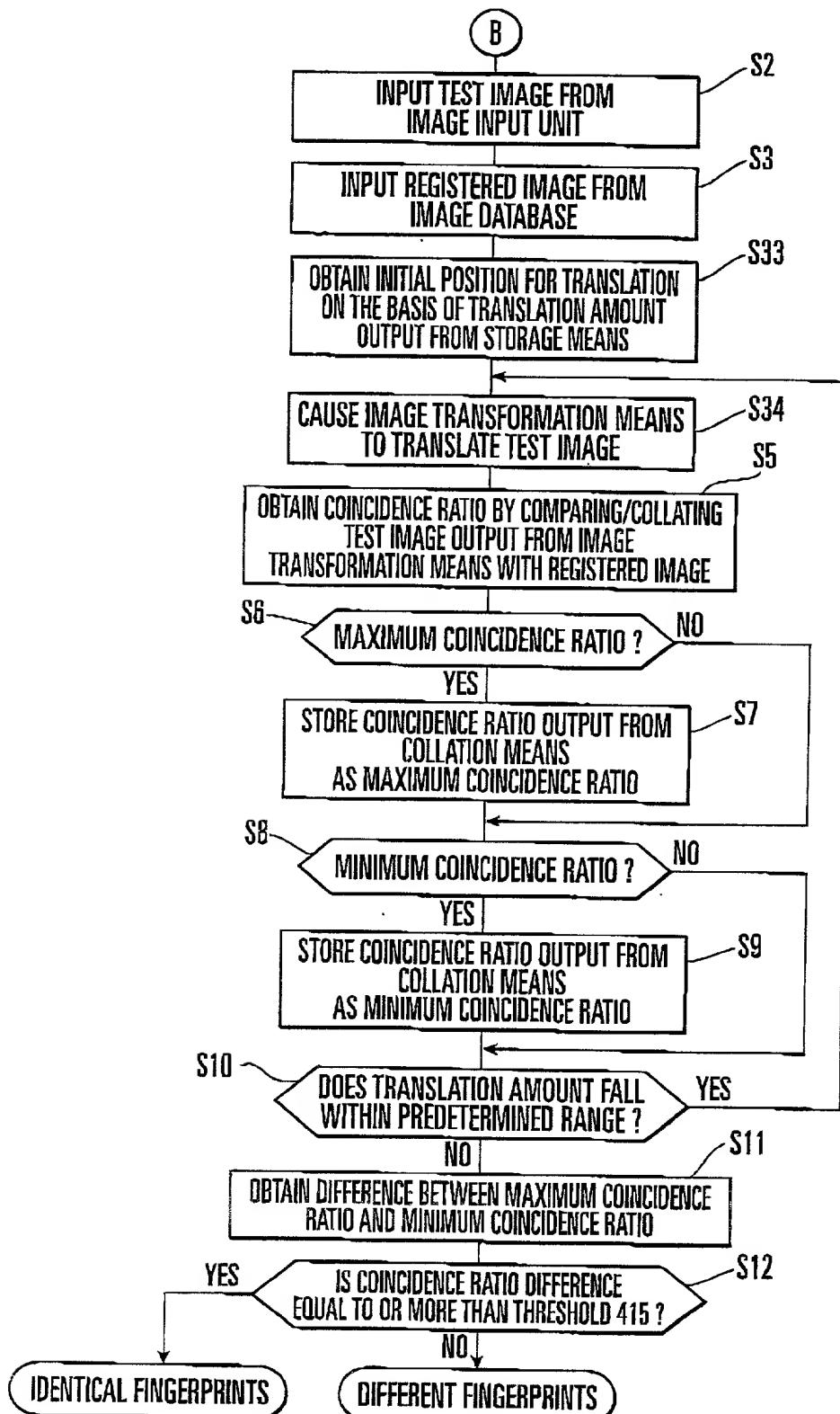


FIG. 14B

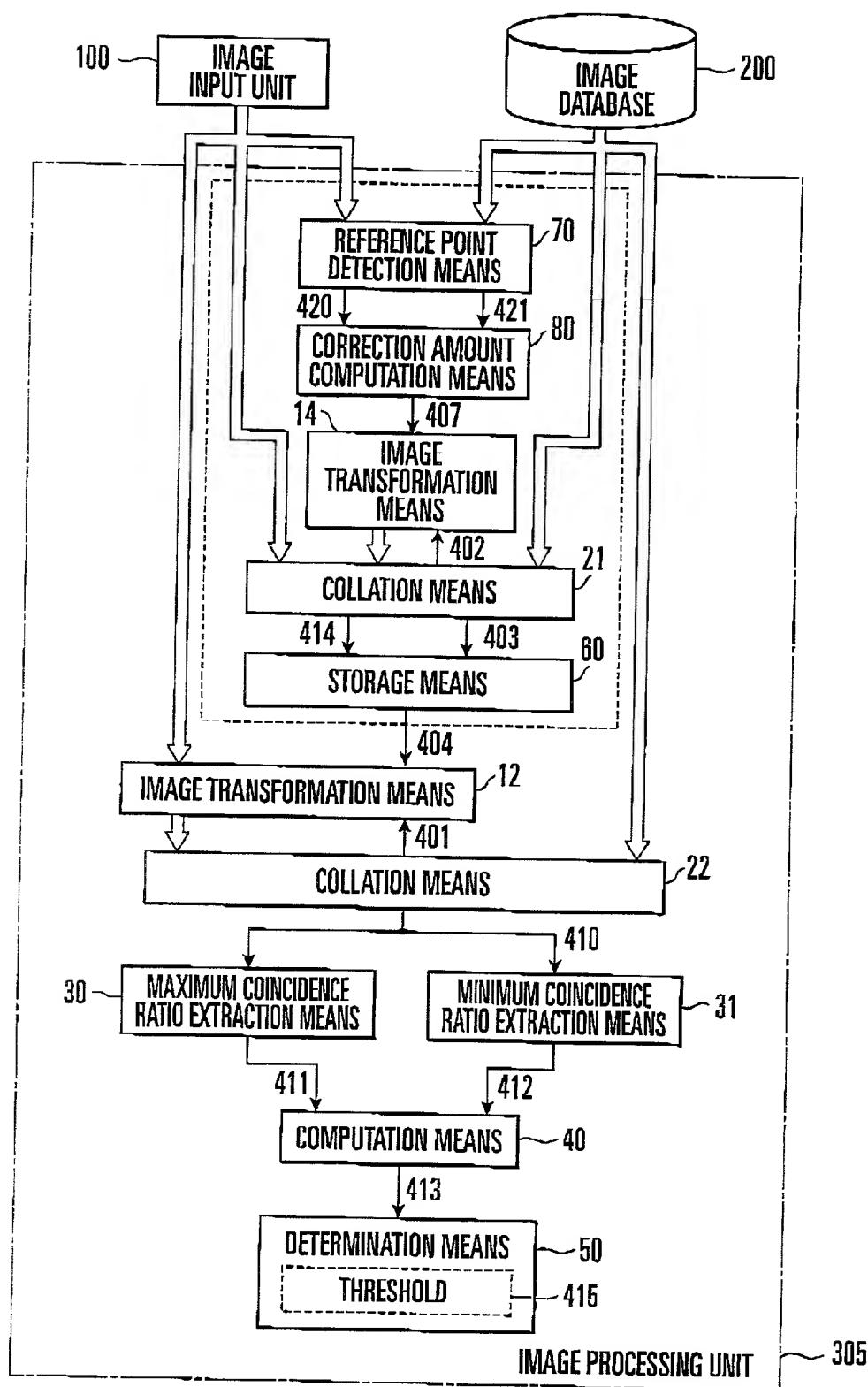


FIG. 15

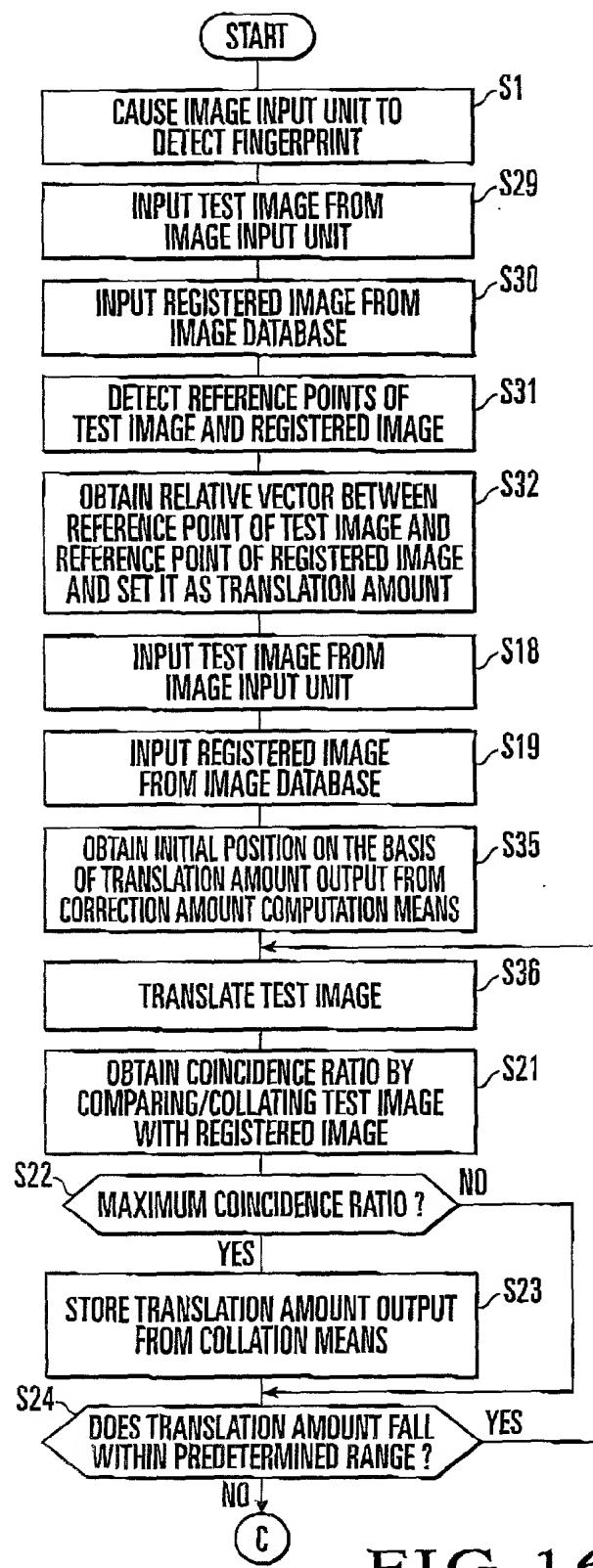


FIG. 16A

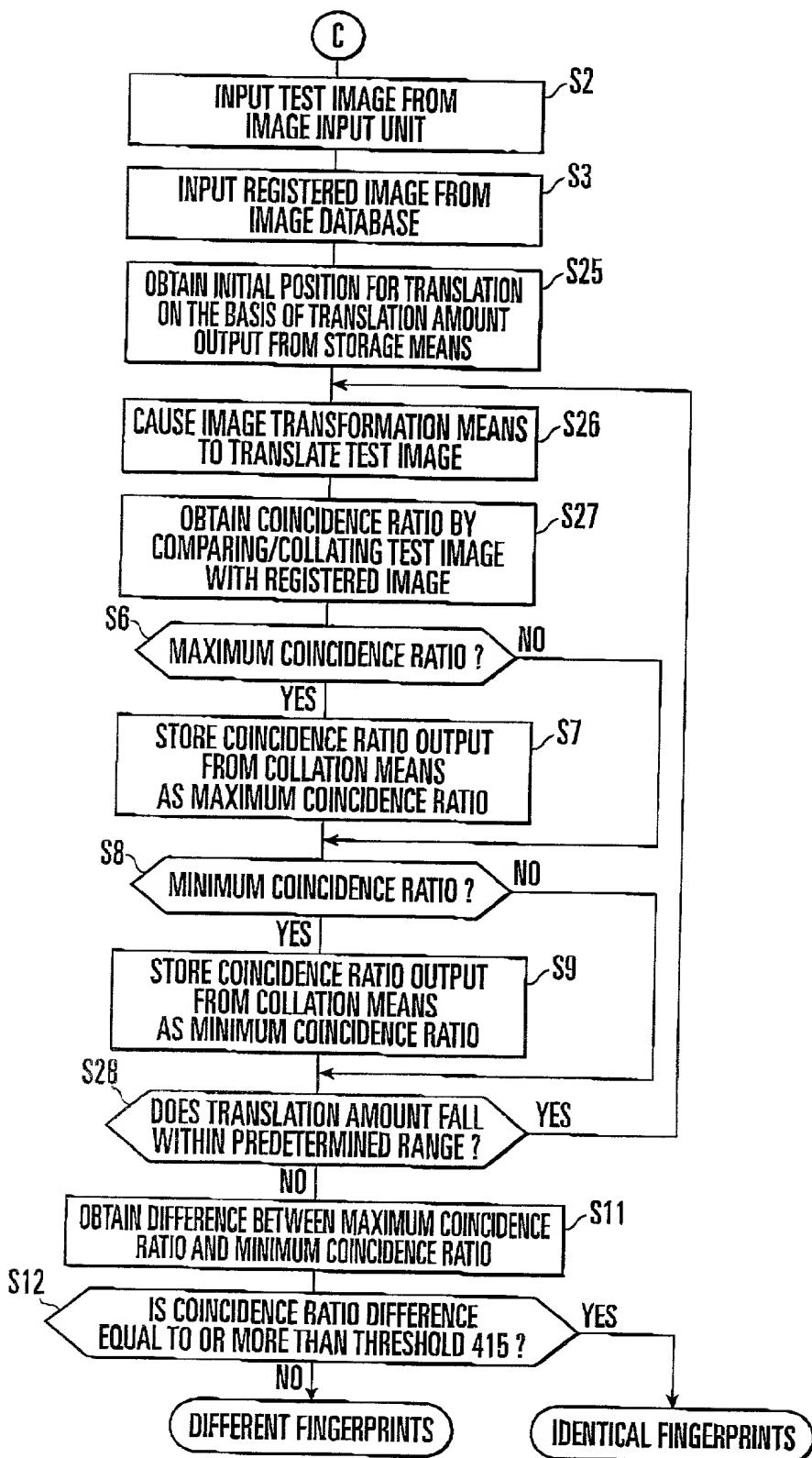


FIG. 16B

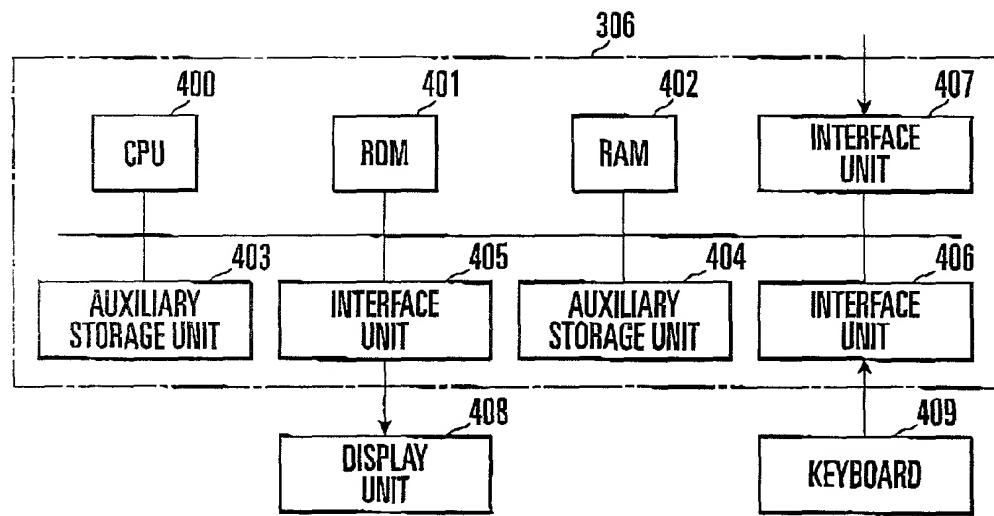


FIG. 17

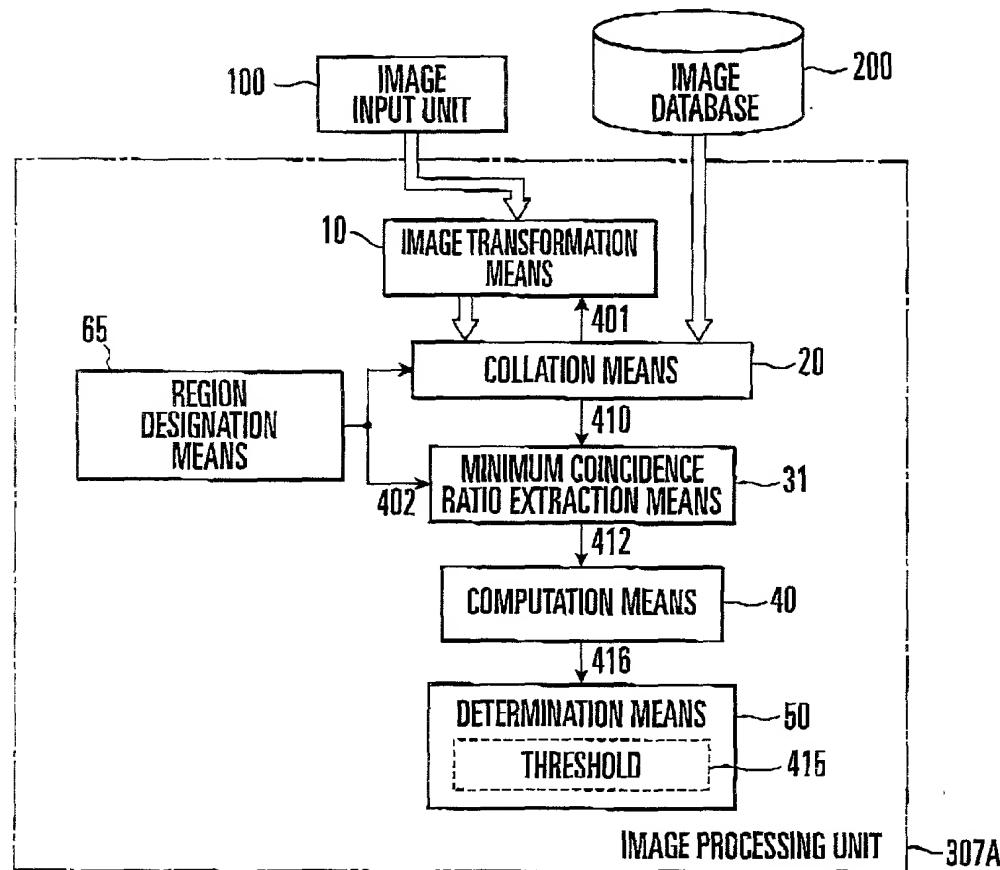


FIG. 18

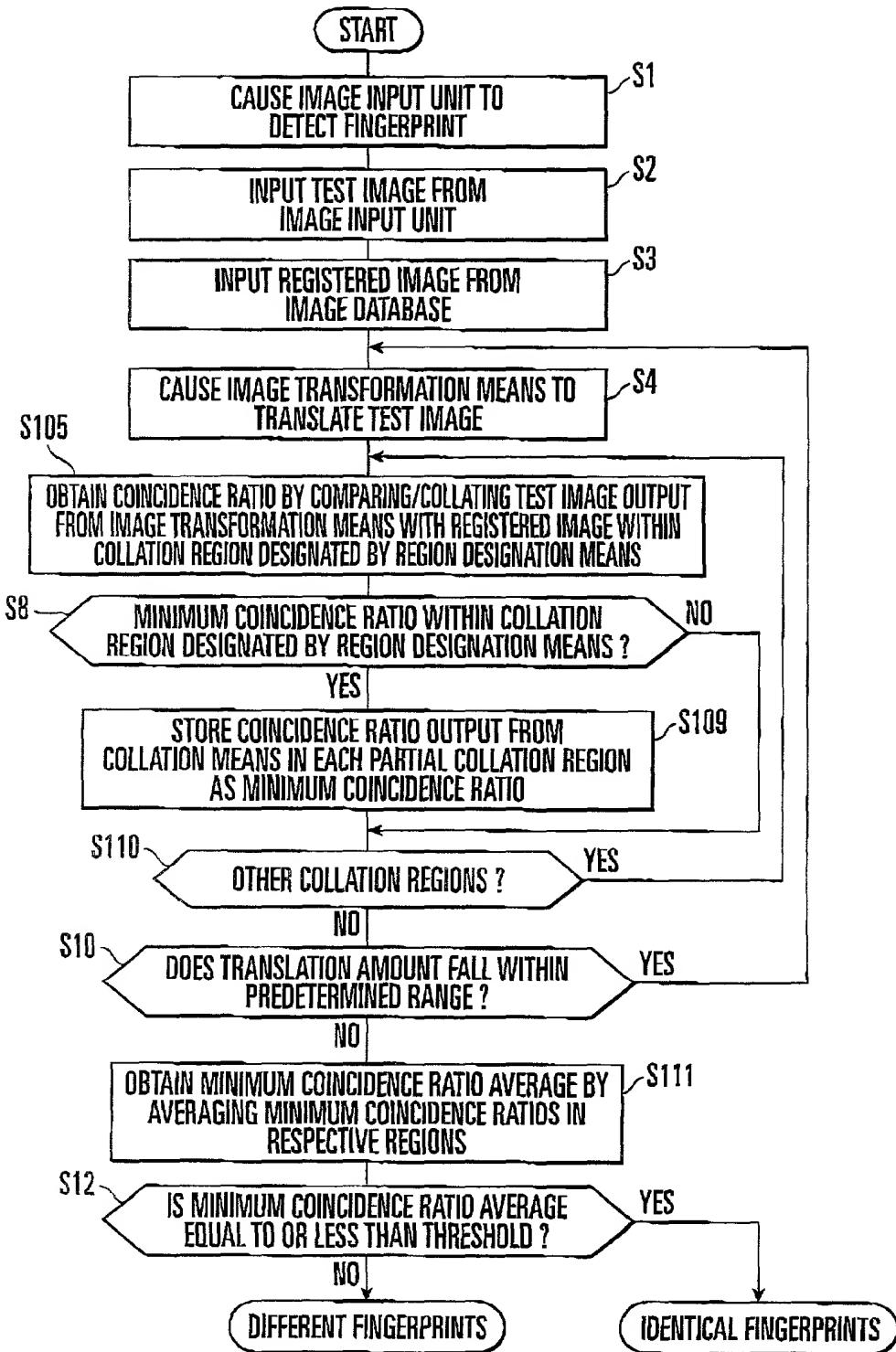


FIG. 19

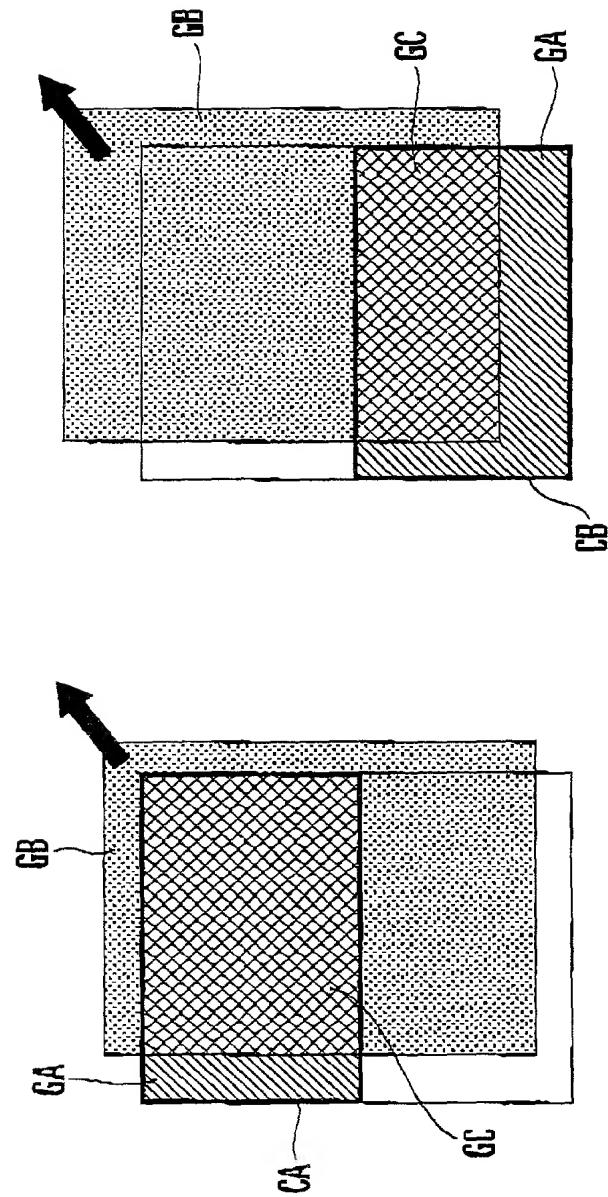


FIG. 20A

FIG. 20B

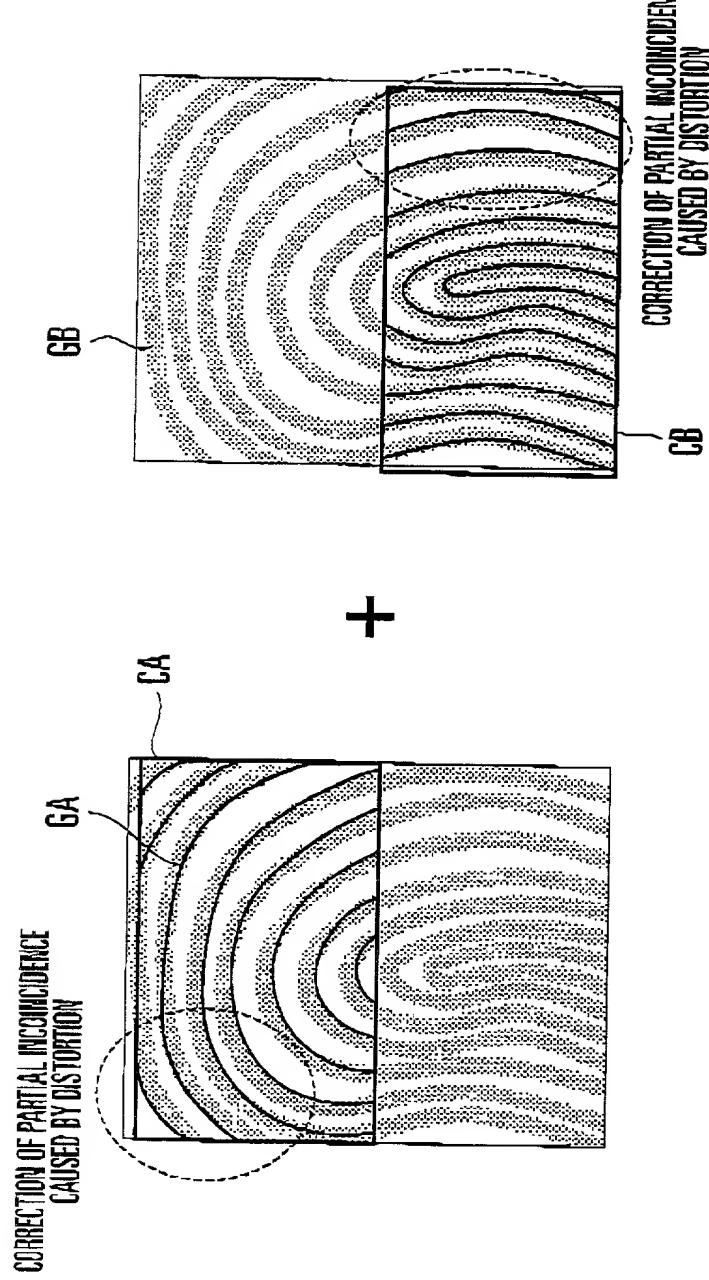


FIG.21 A

FIG.21 B

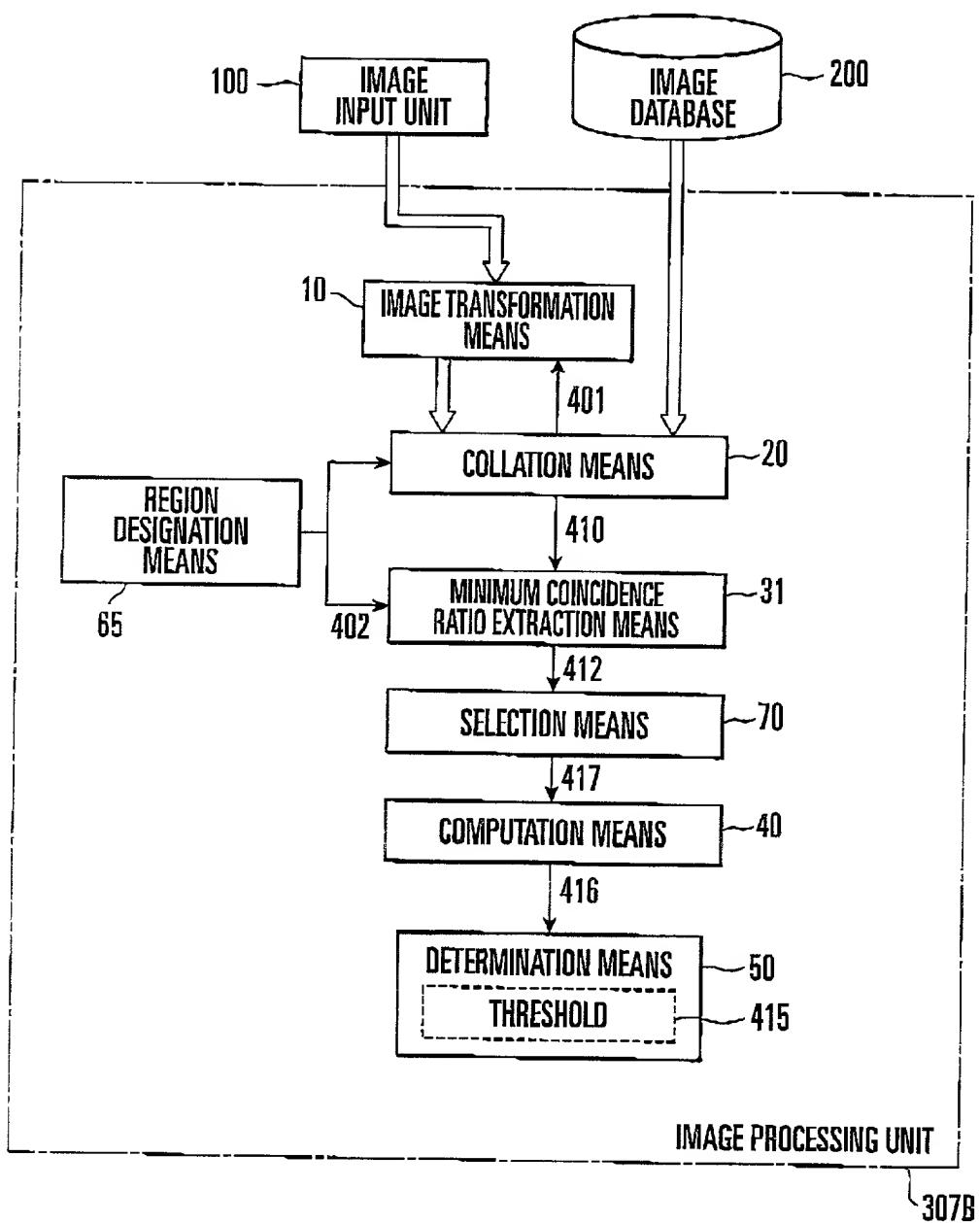


FIG.22

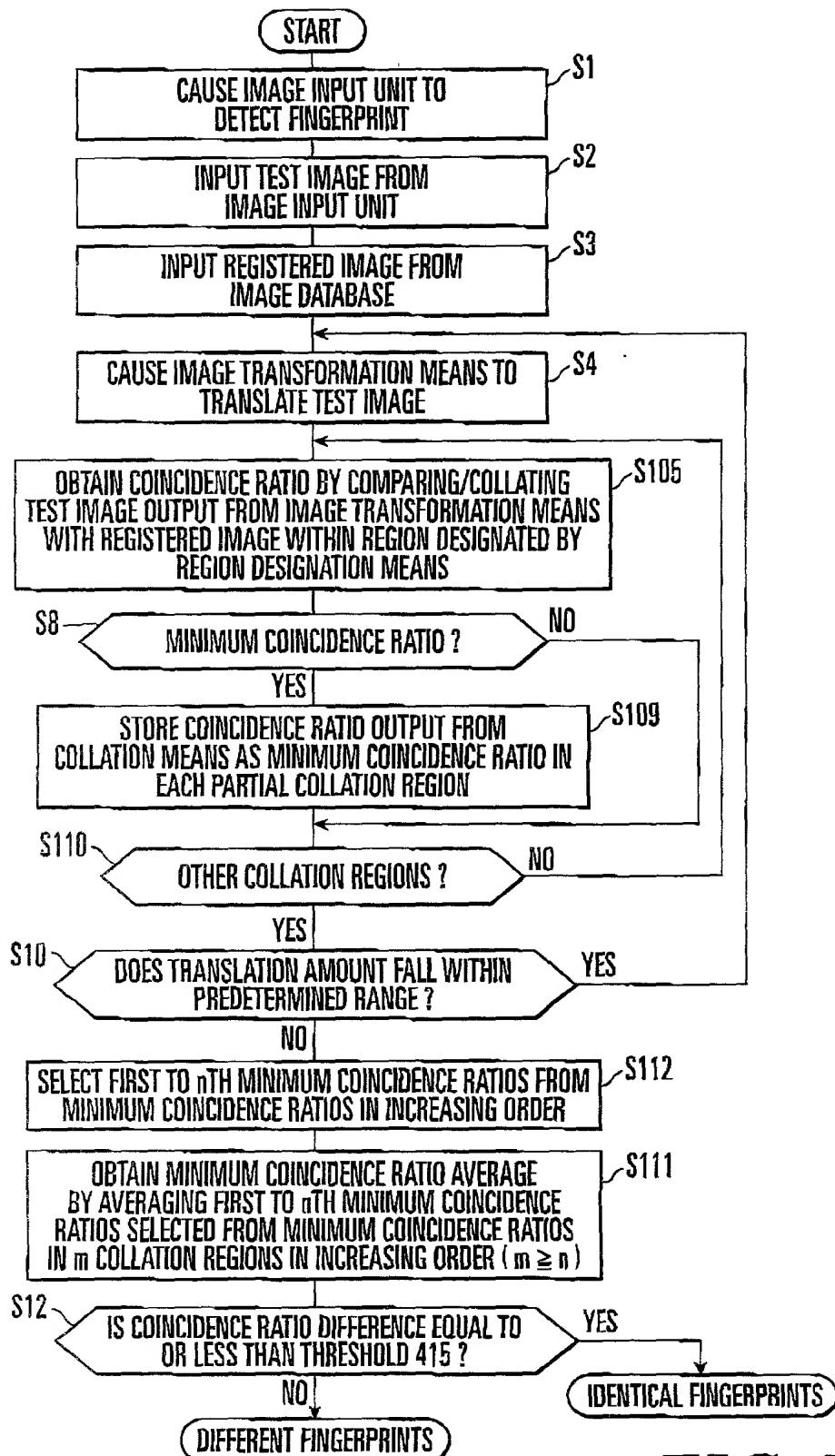


FIG.23

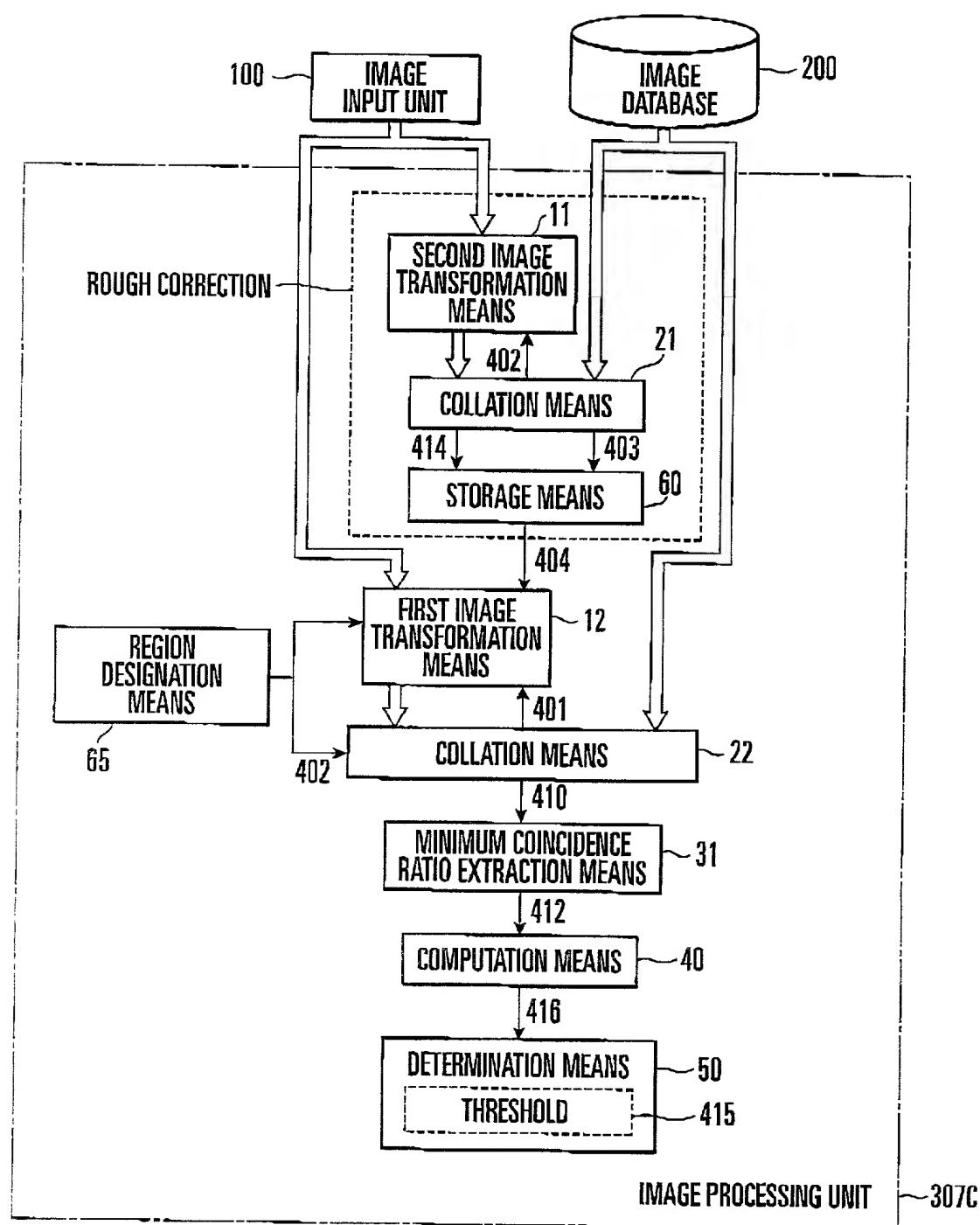


FIG. 24

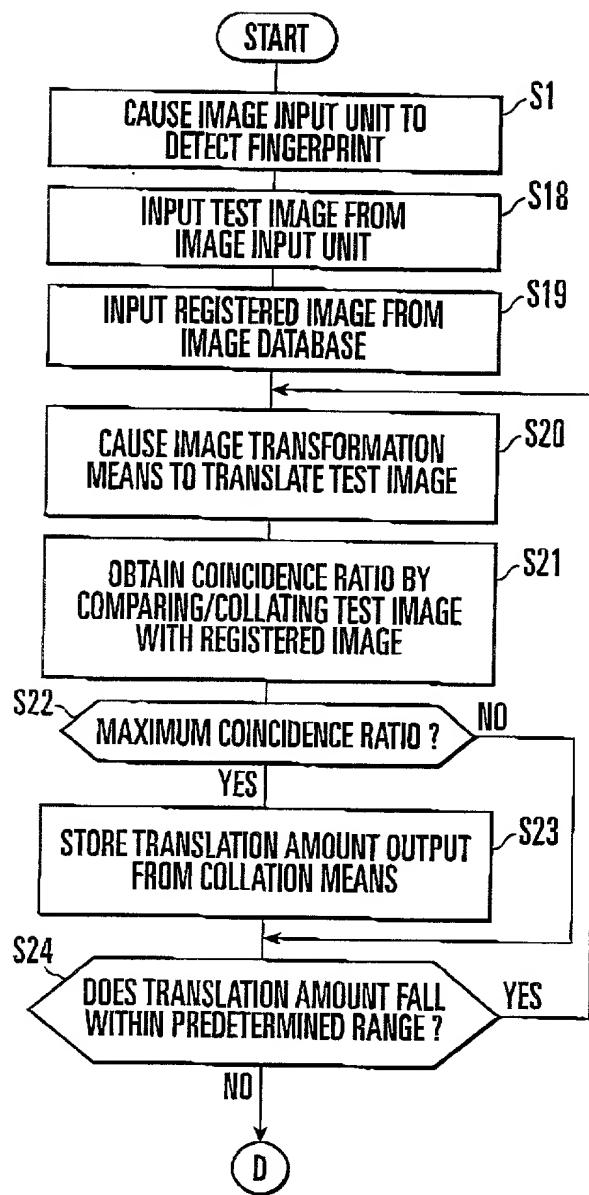


FIG.25A

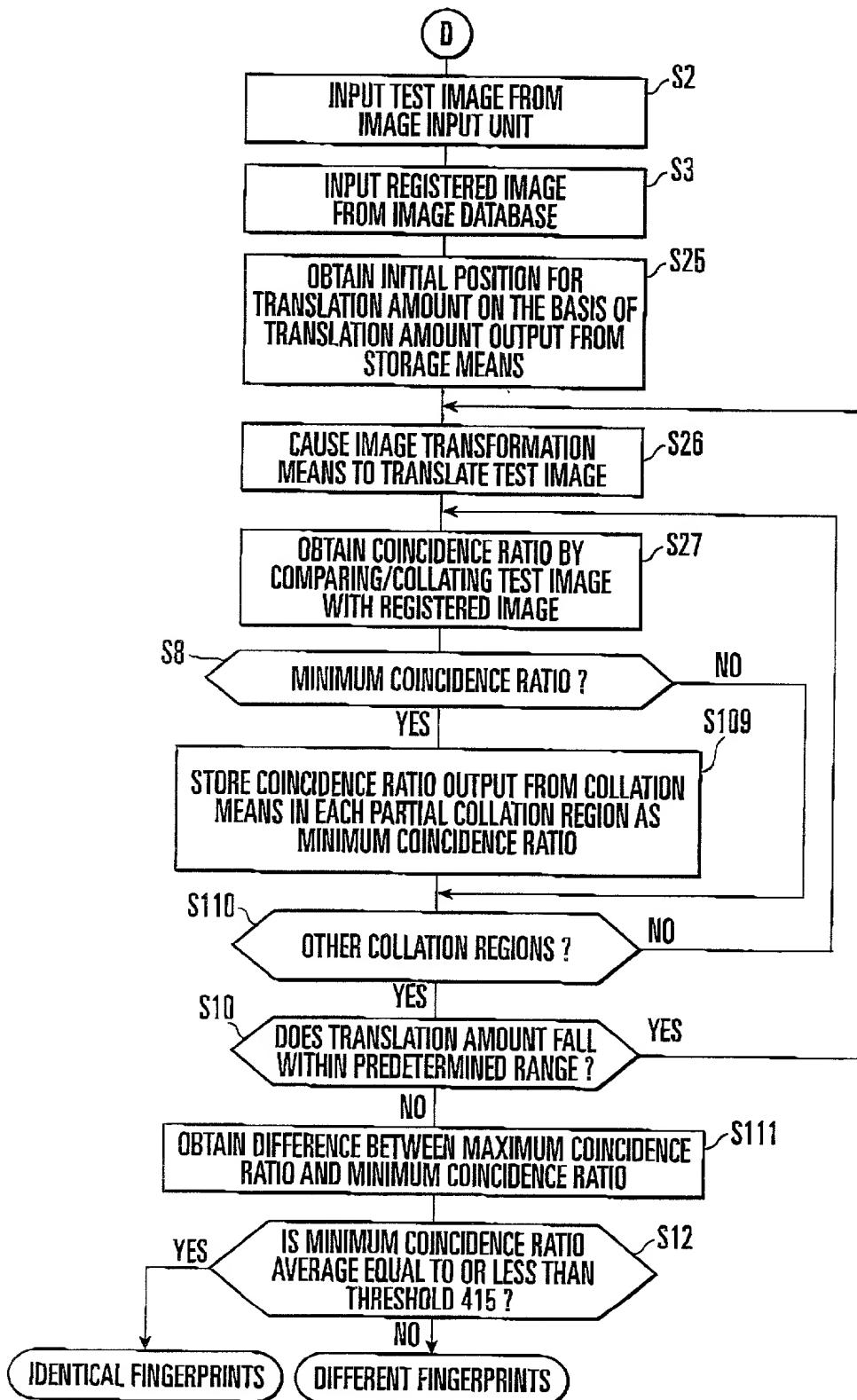


FIG.25B

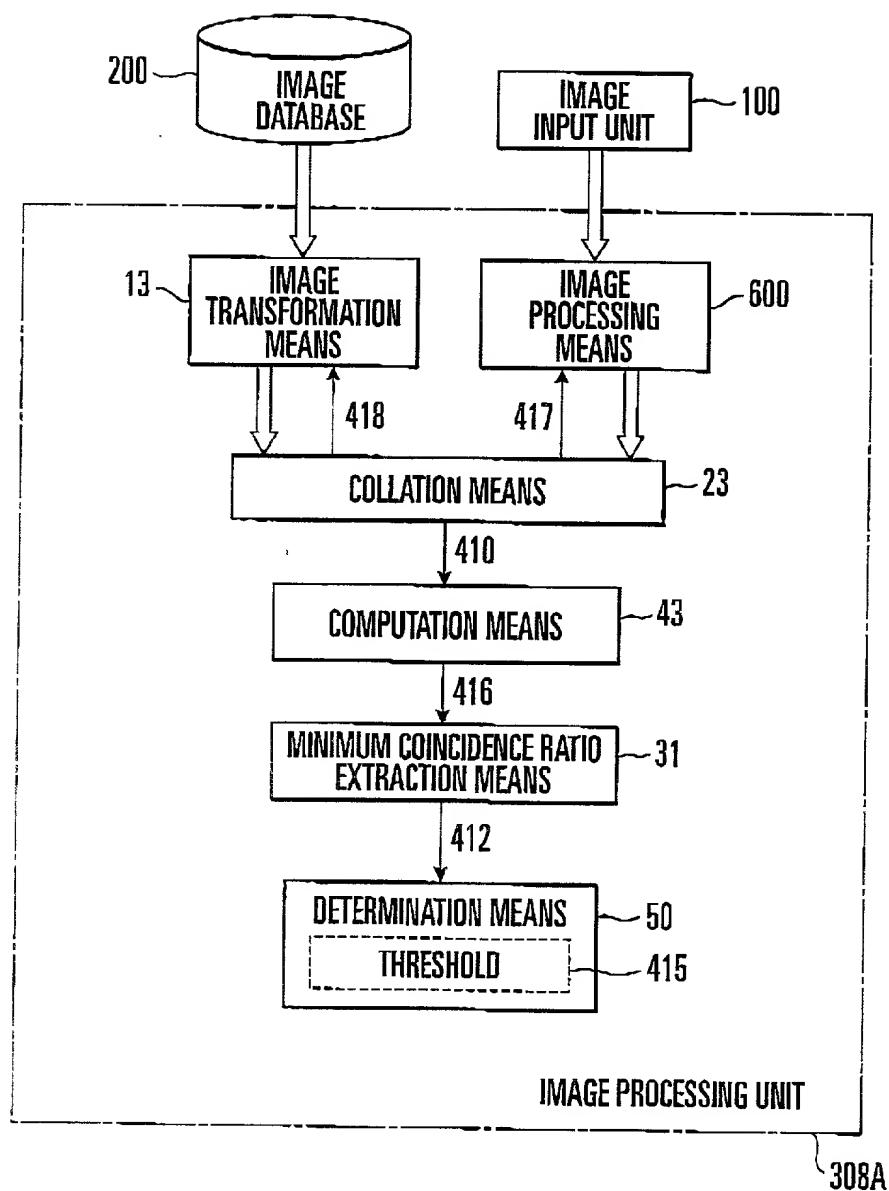


FIG. 26

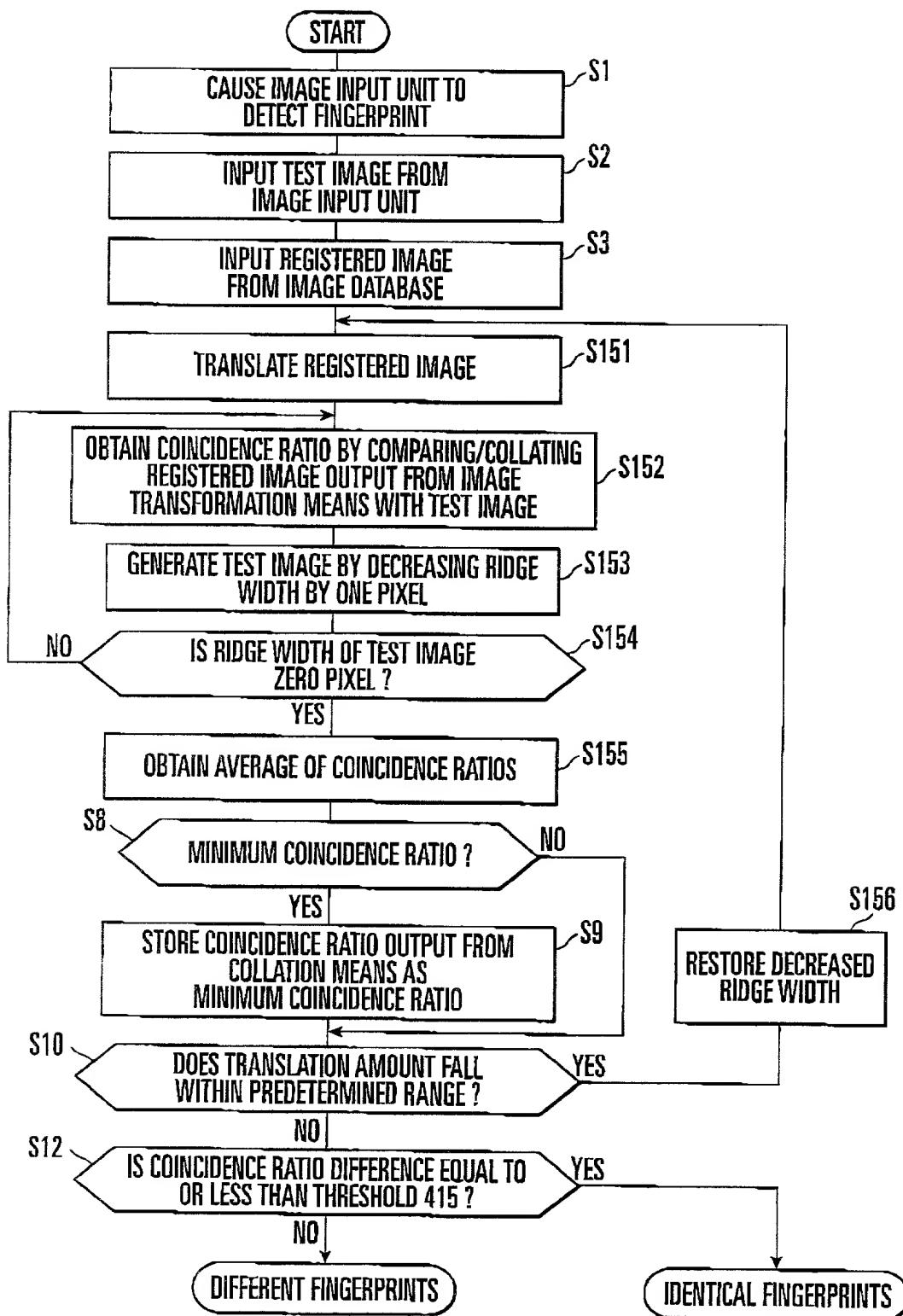
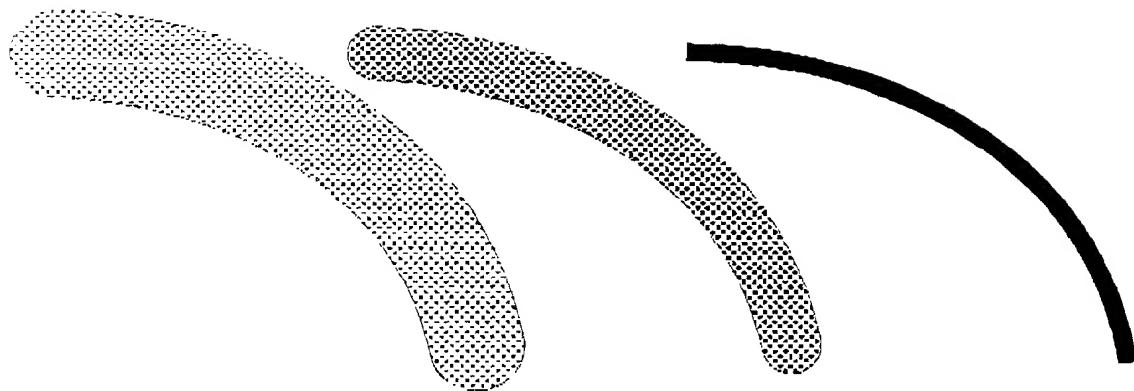


FIG.27



TEST IMAGE OUTPUT FROM IMAGE INPUT UNIT

TEST IMAGE OBTAINED BY DECREASING RIDGE WIDTH WITH USING IMAGE PROCESSING MEANS

TEST IMAGE OBTAINED BY EXECUTING IMAGE PROCESSING MEANS UNTIL RIDGE WIDTH BECOMES ONE PIXEL

FIG.28A

FIG.28B

FIG.28C

COINCIDENT PORTION  
(RED CORRESPONDING COUNT OF 3 PER PIXEL)COINCIDENT PORTION  
(YELLOW CORRESPONDING COUNT OF 1 PER PIXEL)COINCIDENT PORTION  
(ORANGE CORRESPONDING COUNT OF 2 PER PIXEL)

REGISTERED IMAGE

TEST IMAGE  
(SUPERIMPOSITION OF TEST IMAGES HAVING DIFFERENT WIDTHS)

FIG.29

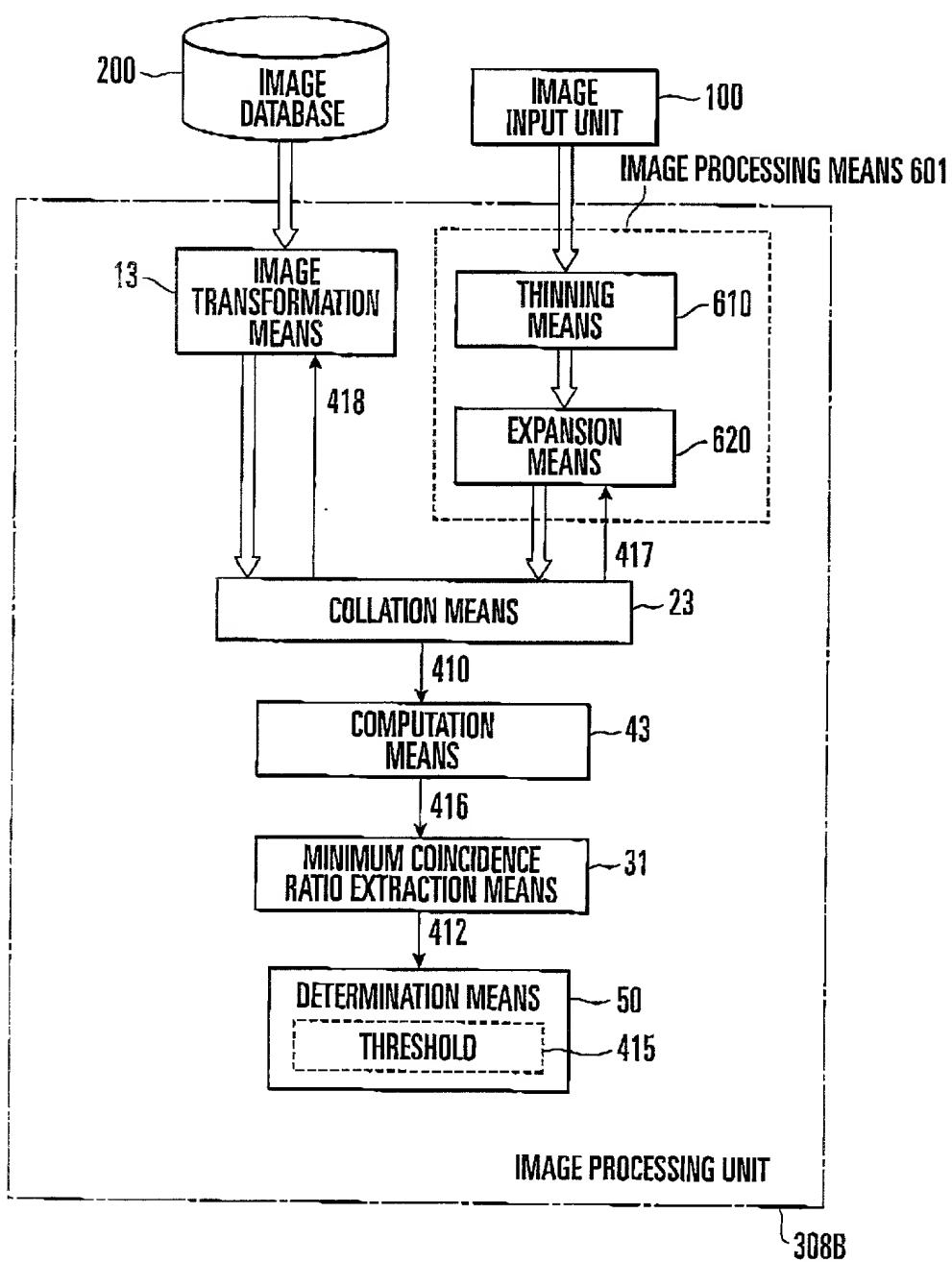


FIG. 30

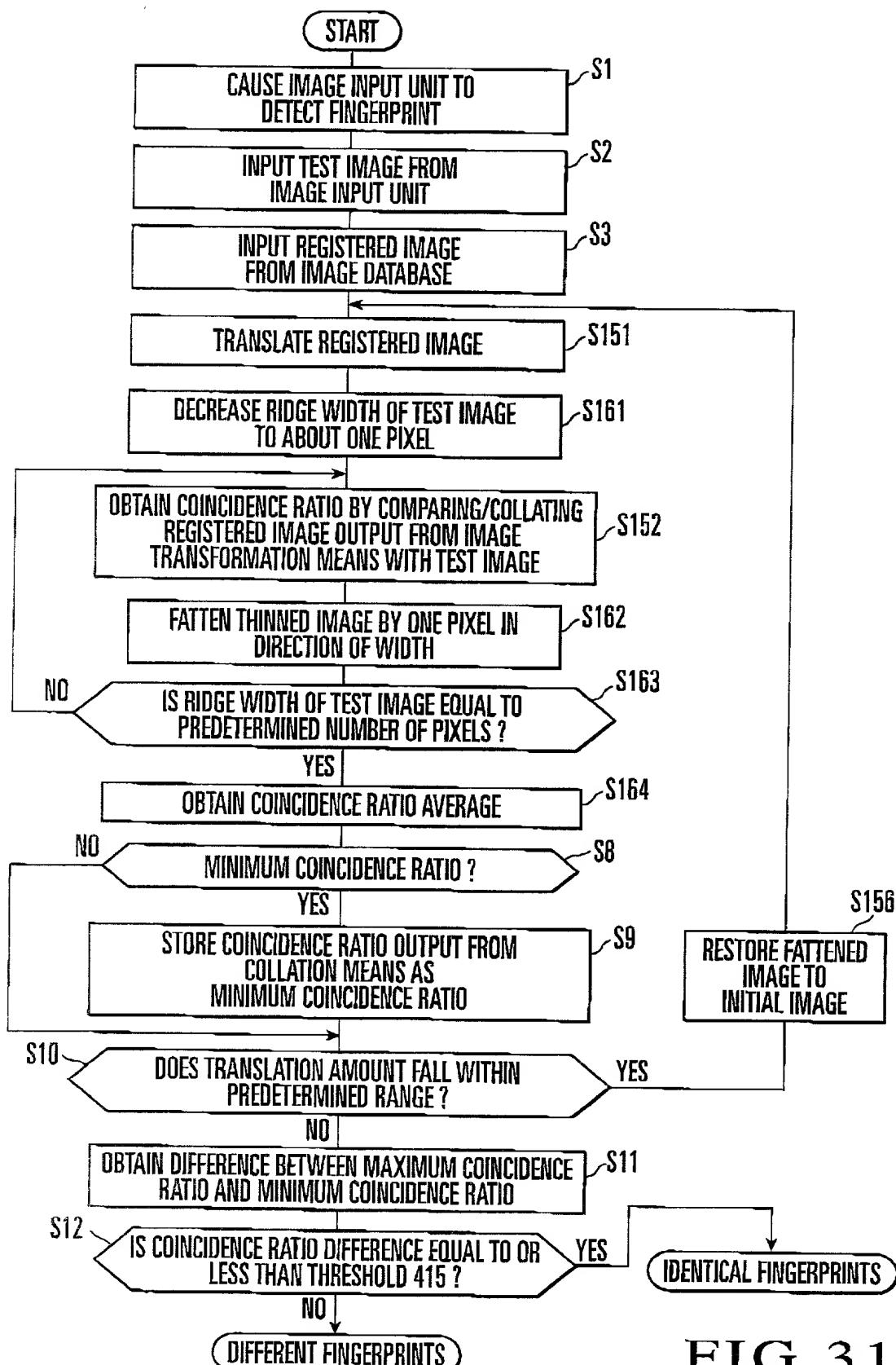


FIG. 31

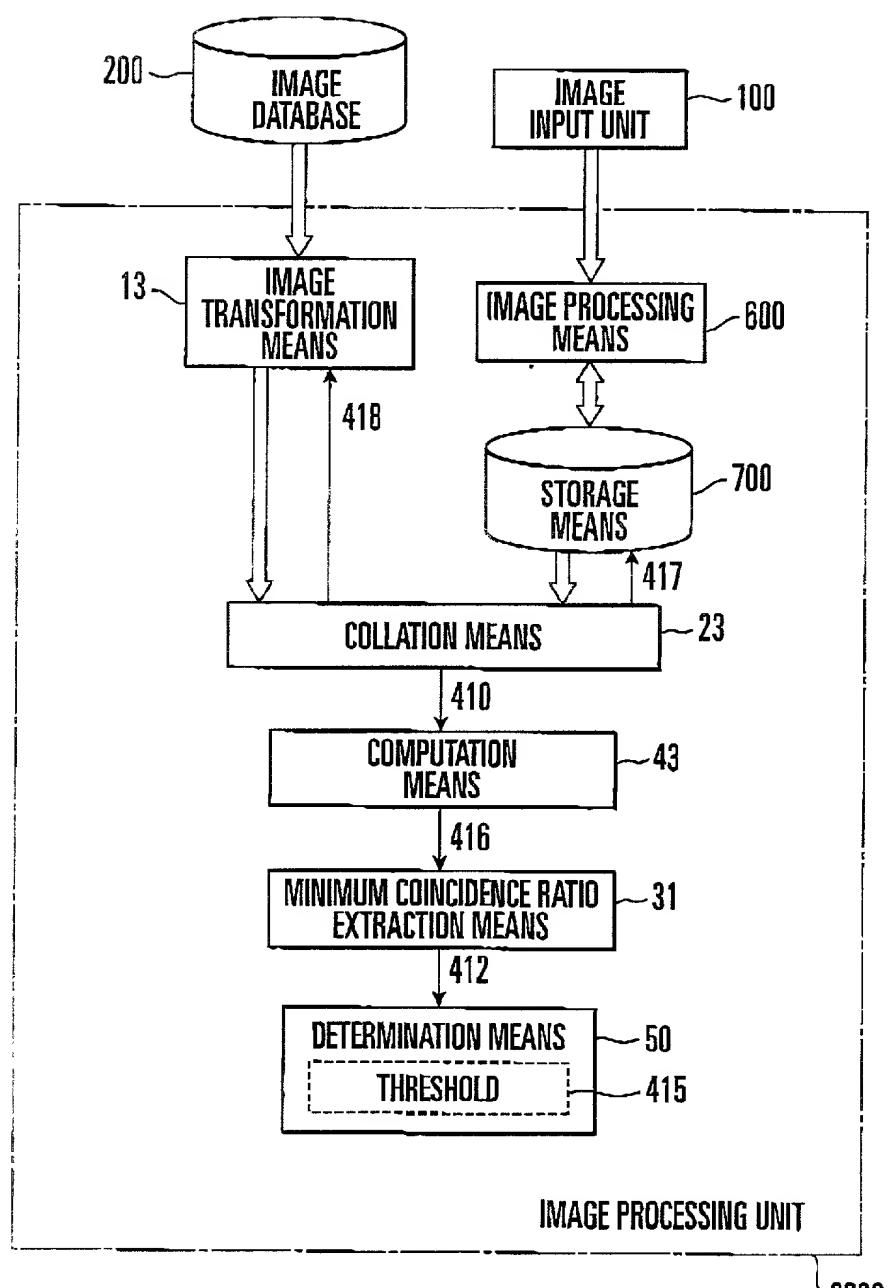


FIG. 32

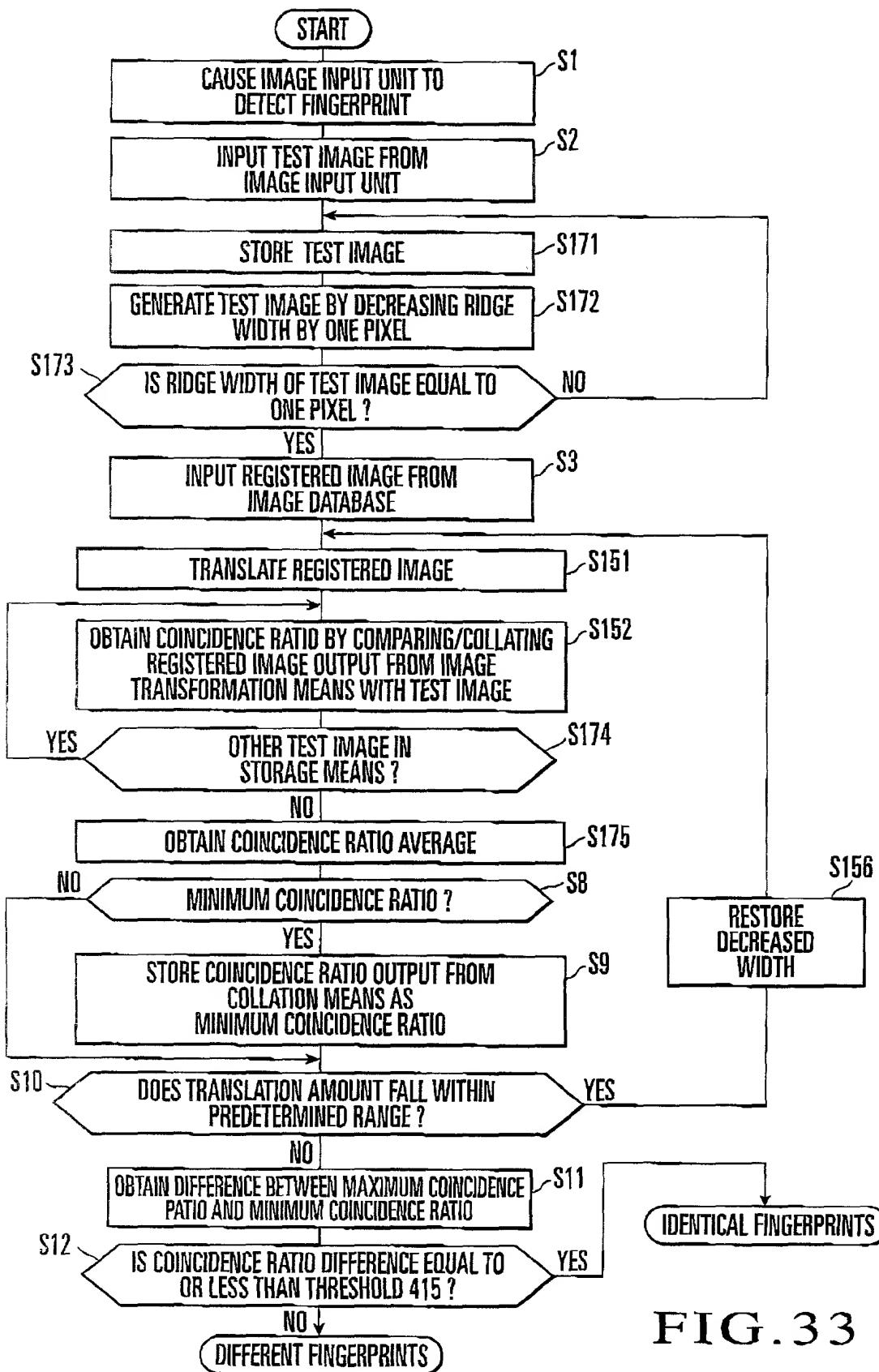


FIG. 33

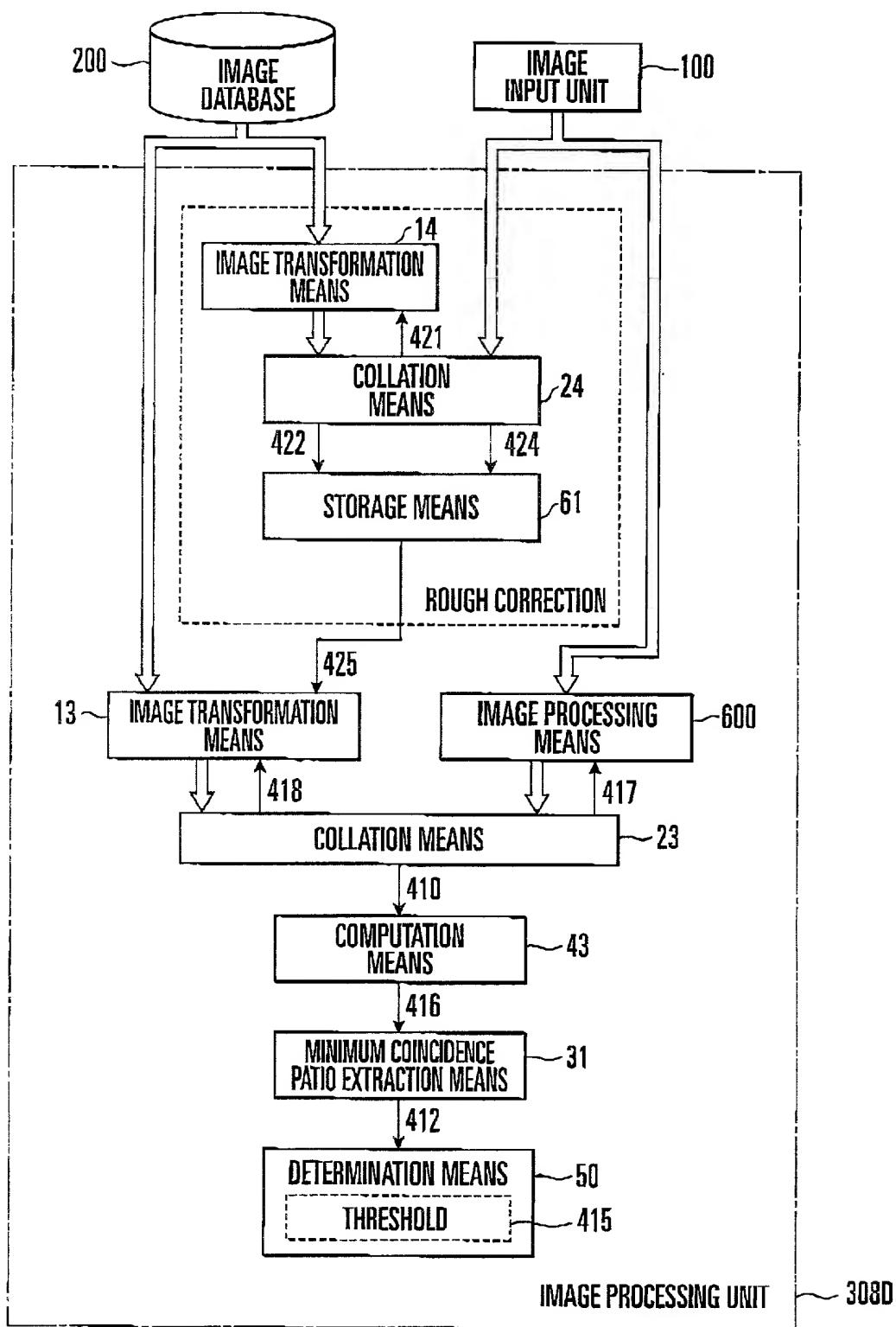


FIG. 34

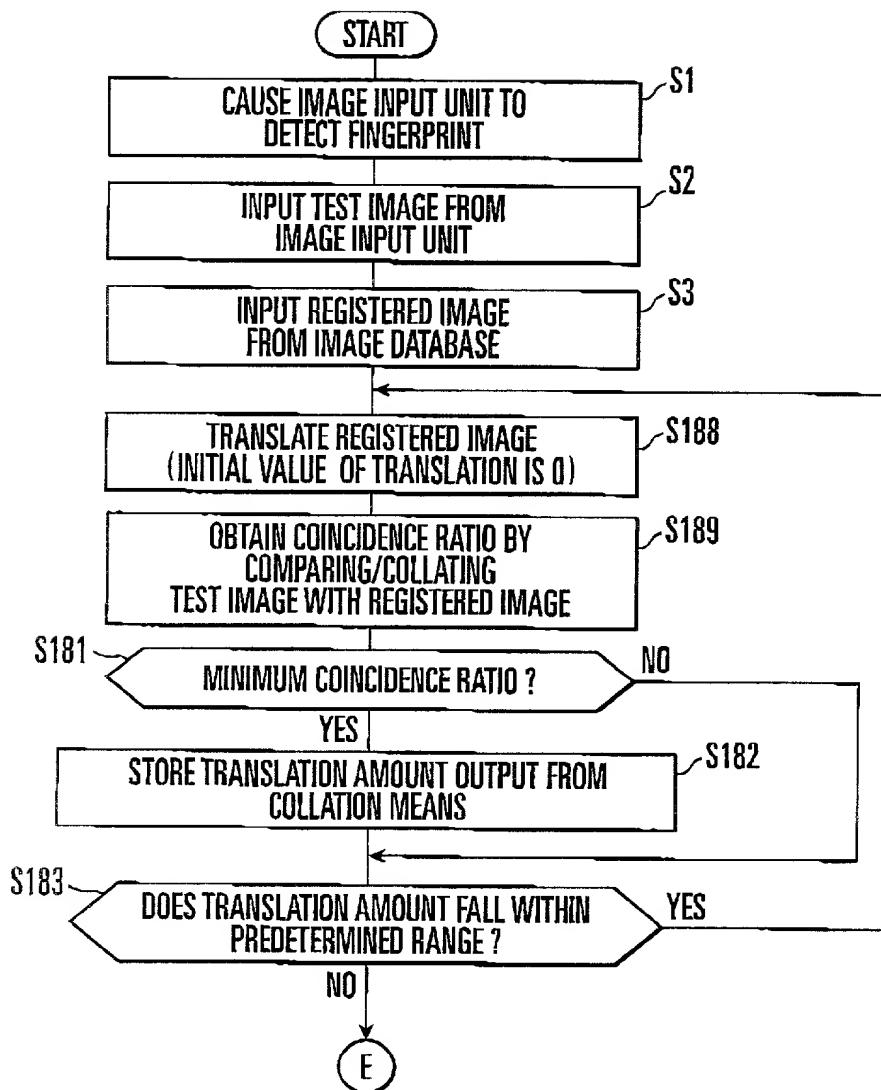


FIG.35A

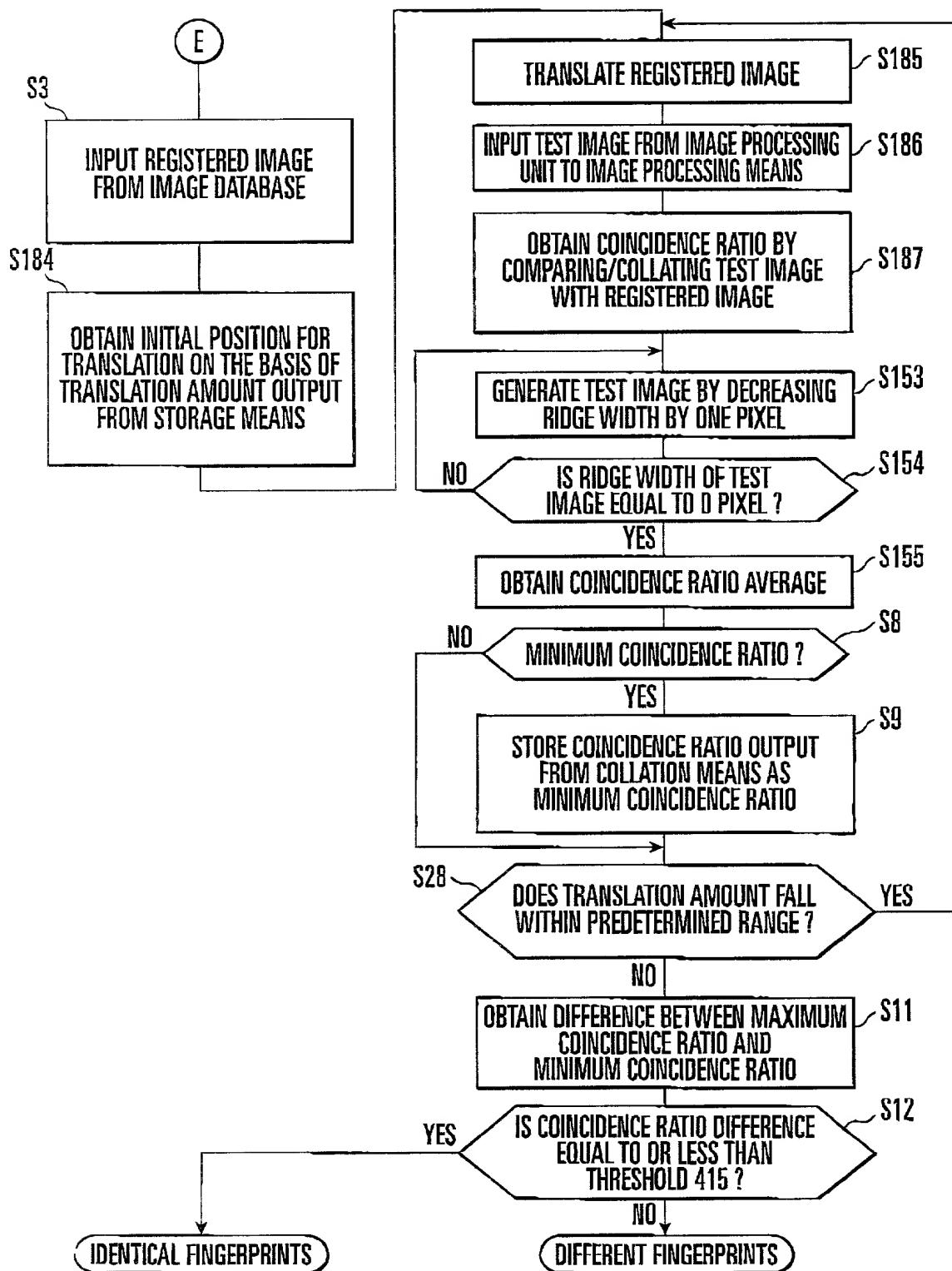
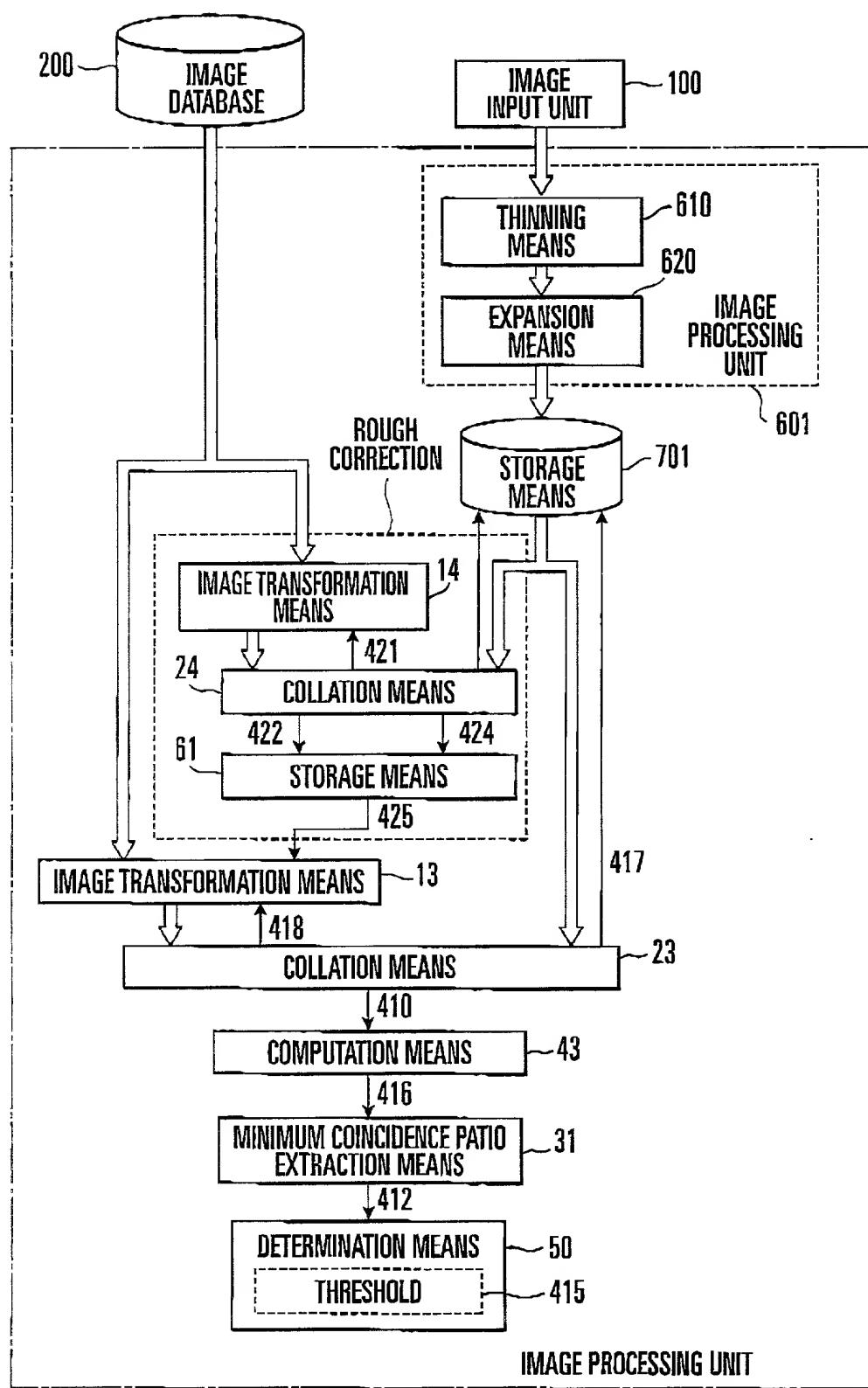


FIG.35B



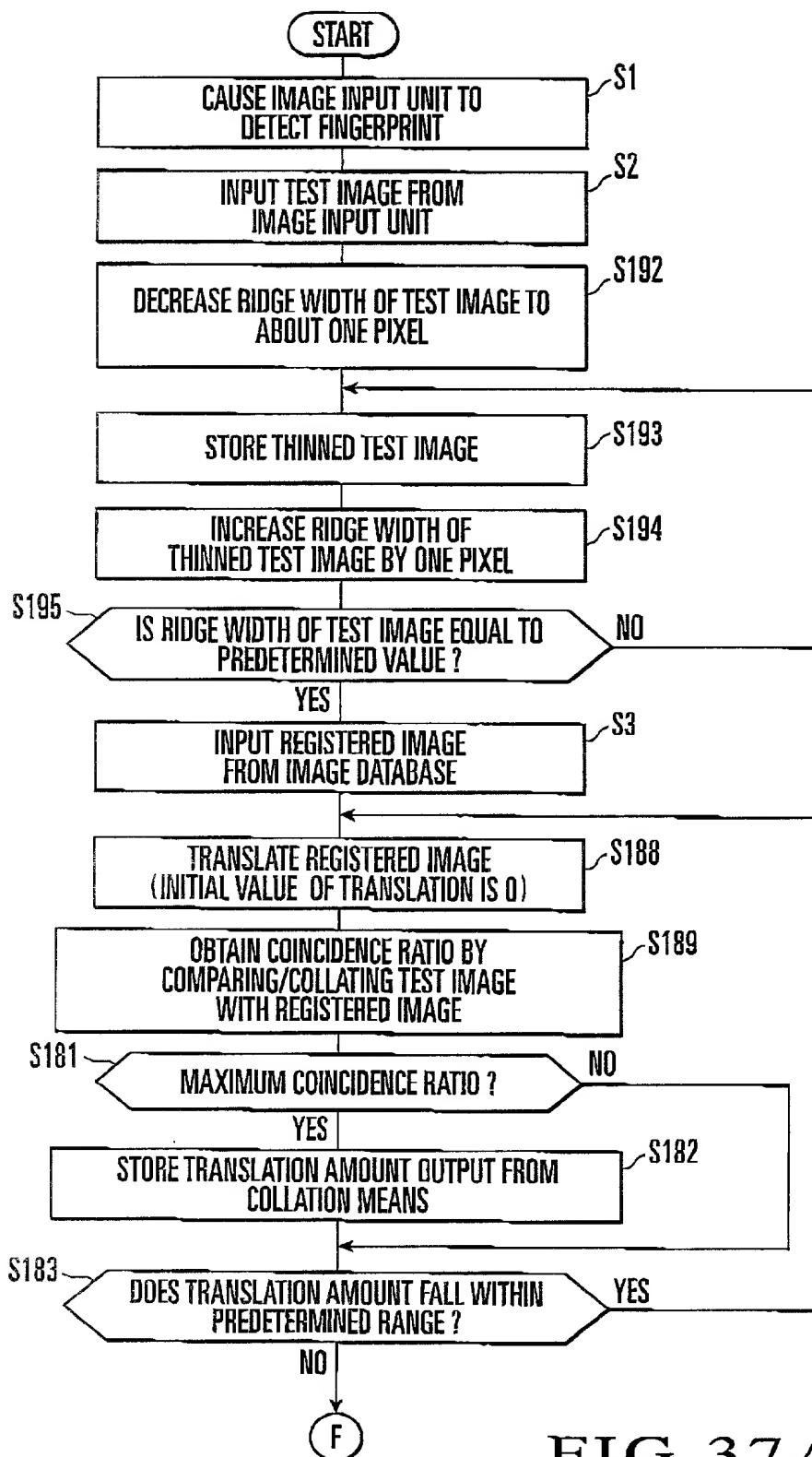


FIG.37A

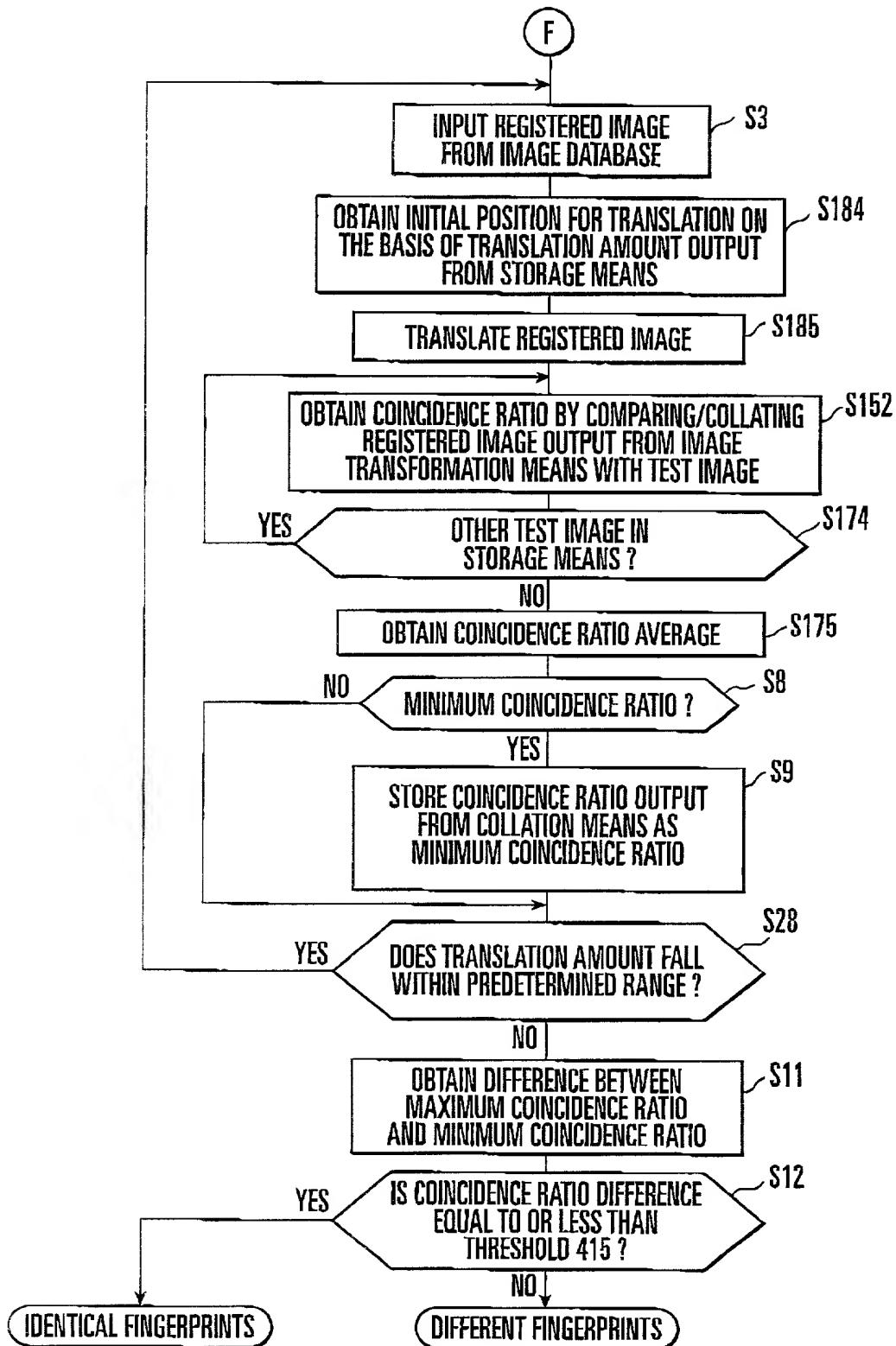


FIG. 37B

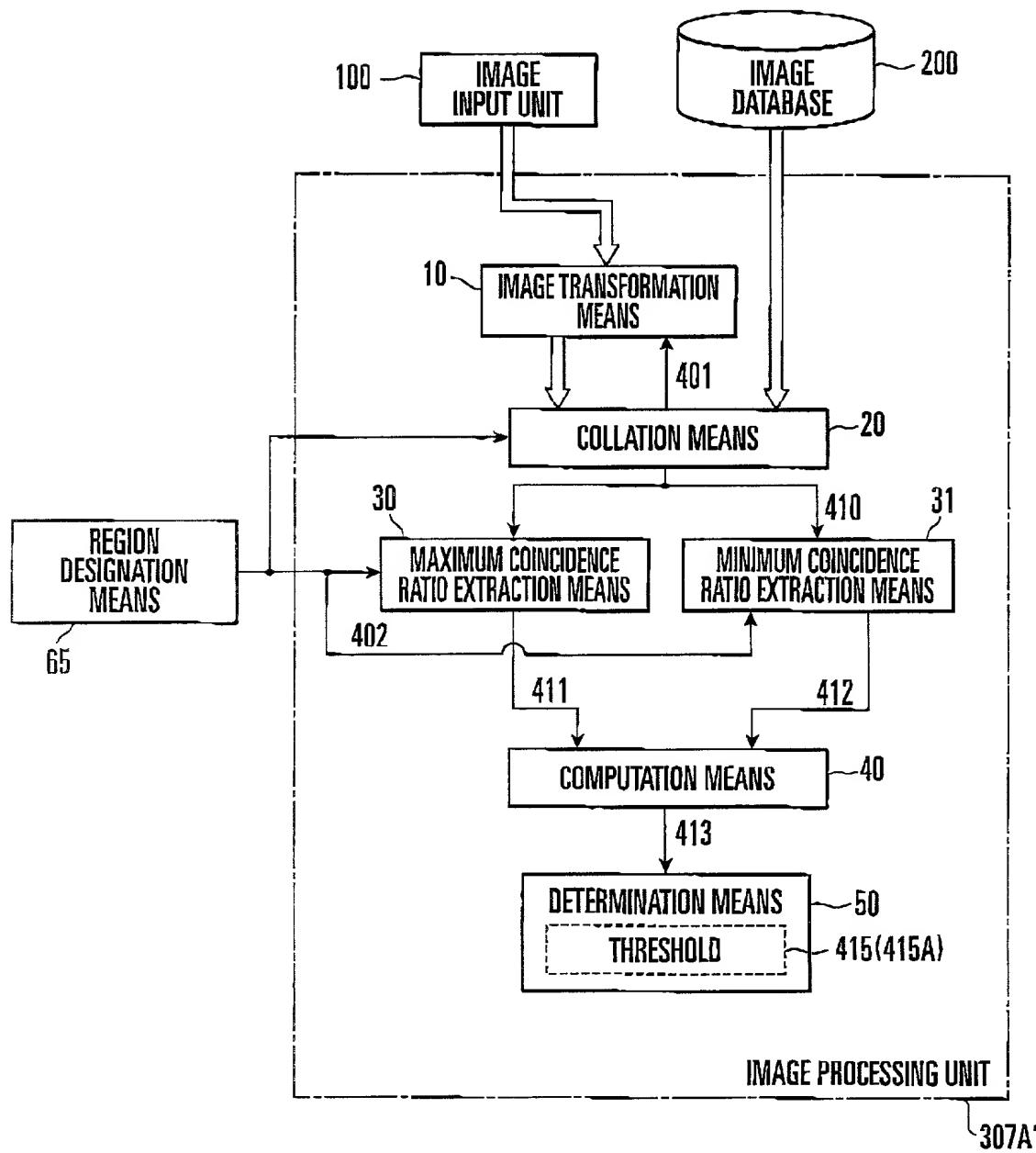


FIG.38

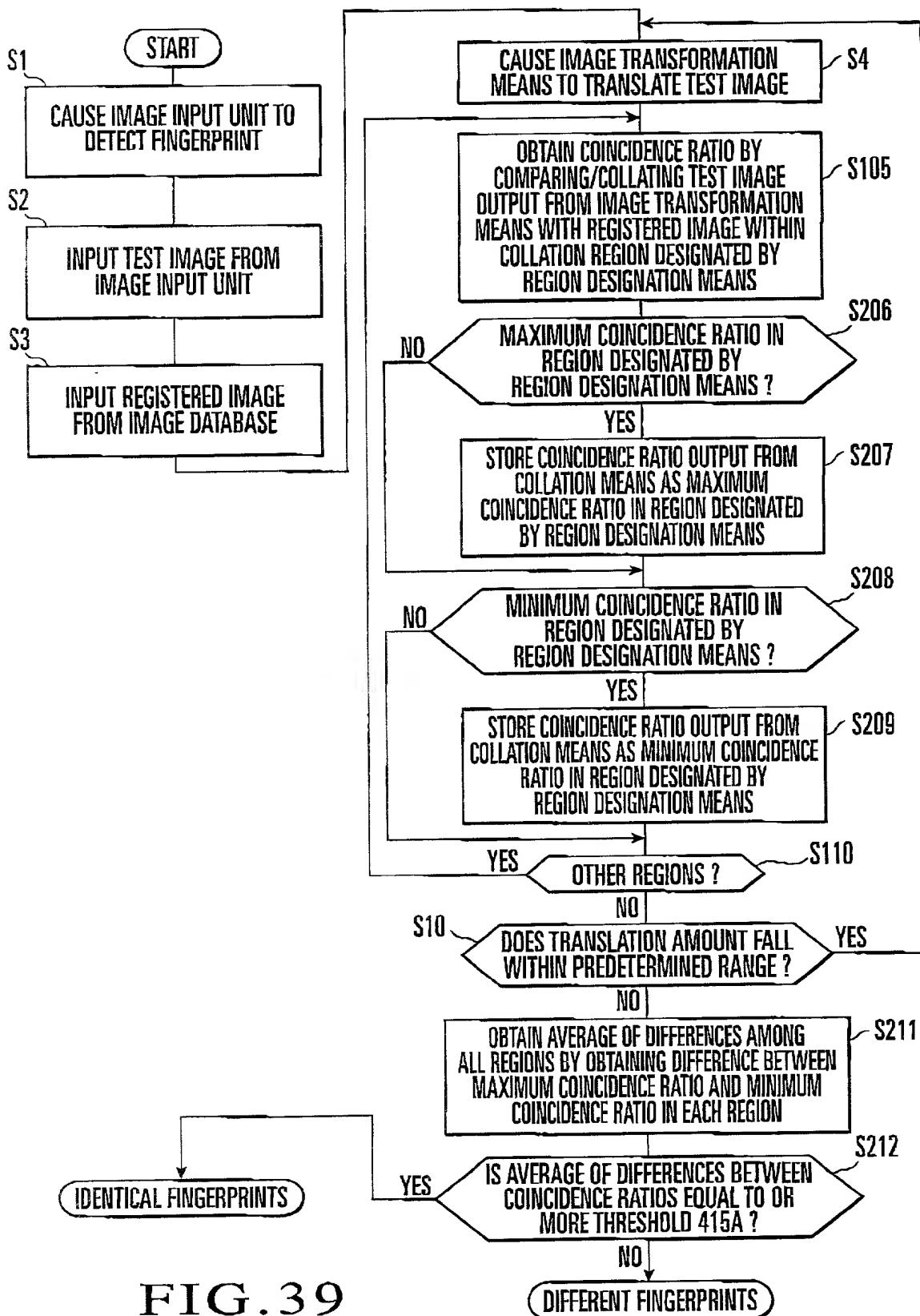


FIG. 39

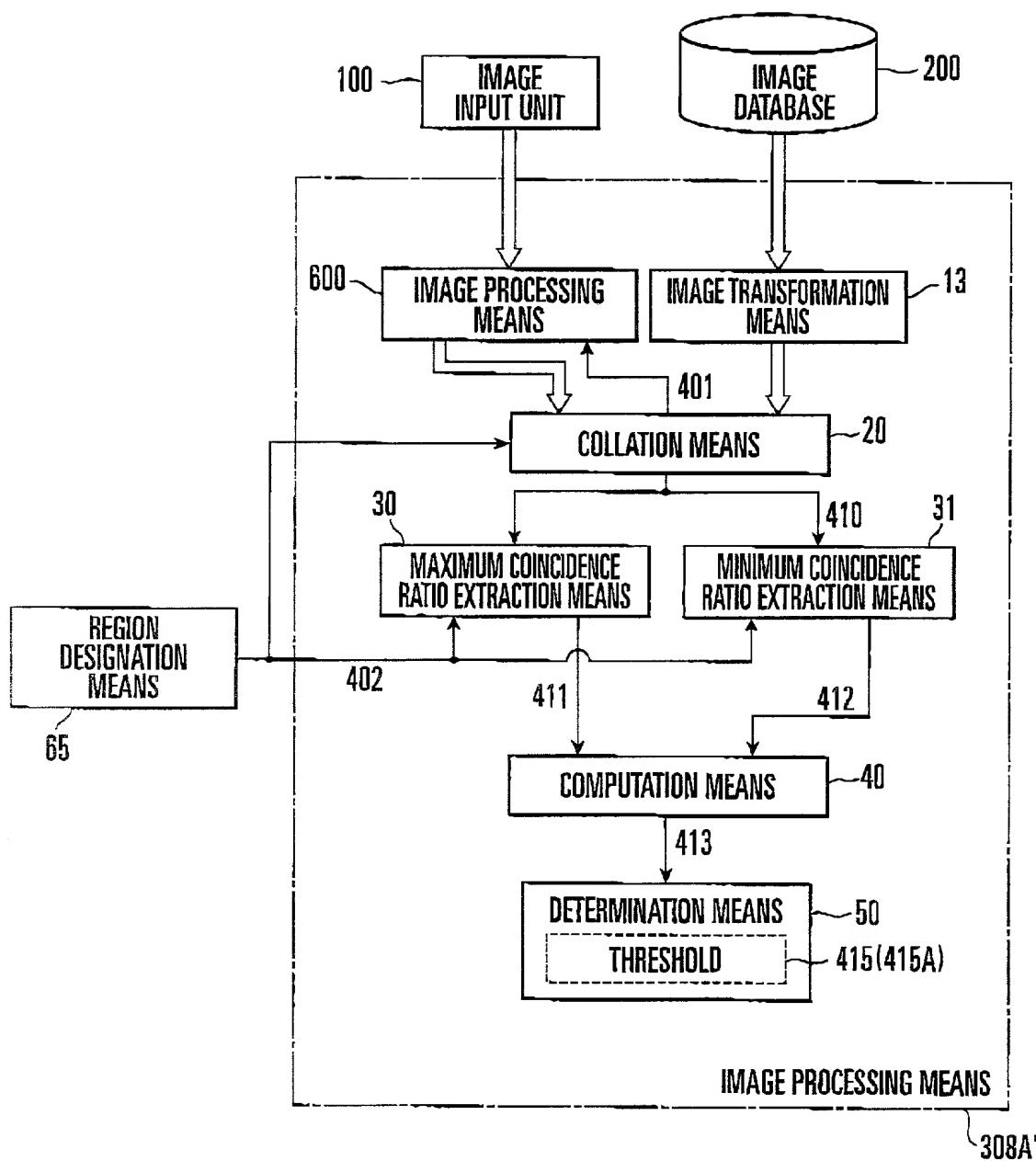


FIG. 40

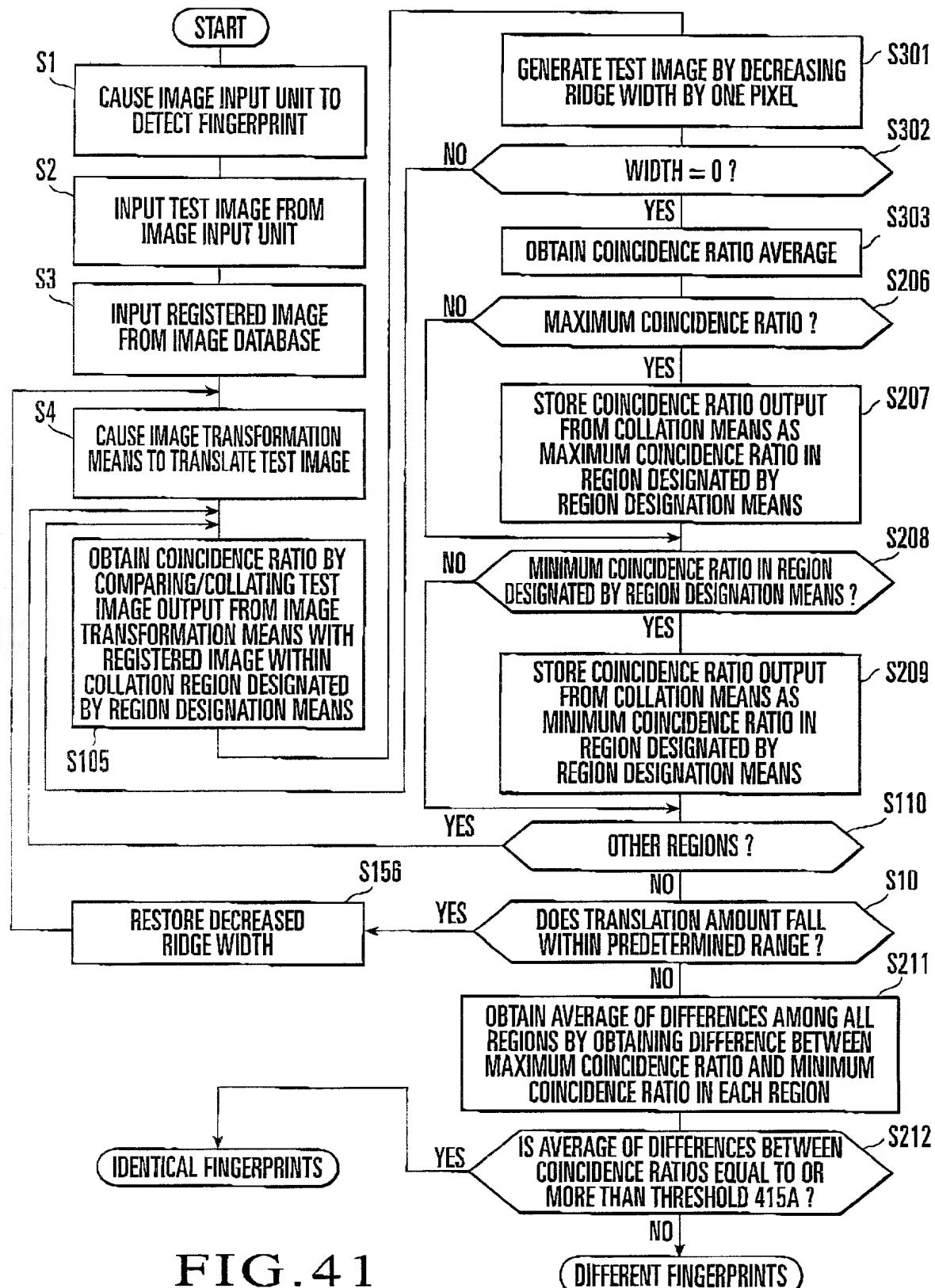
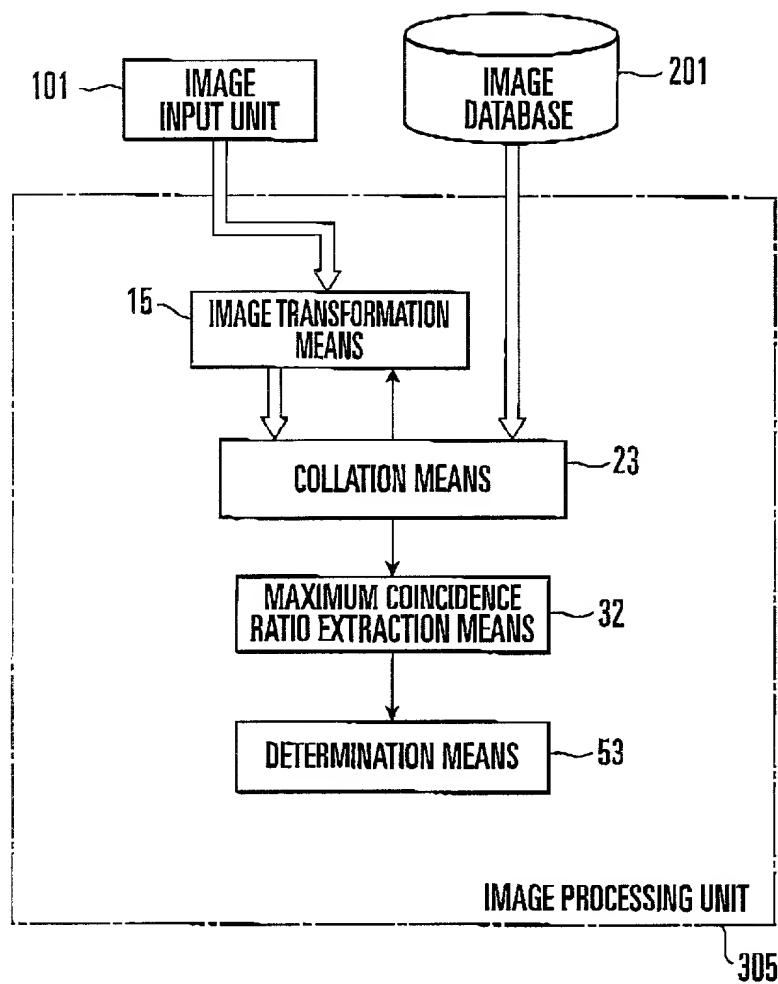
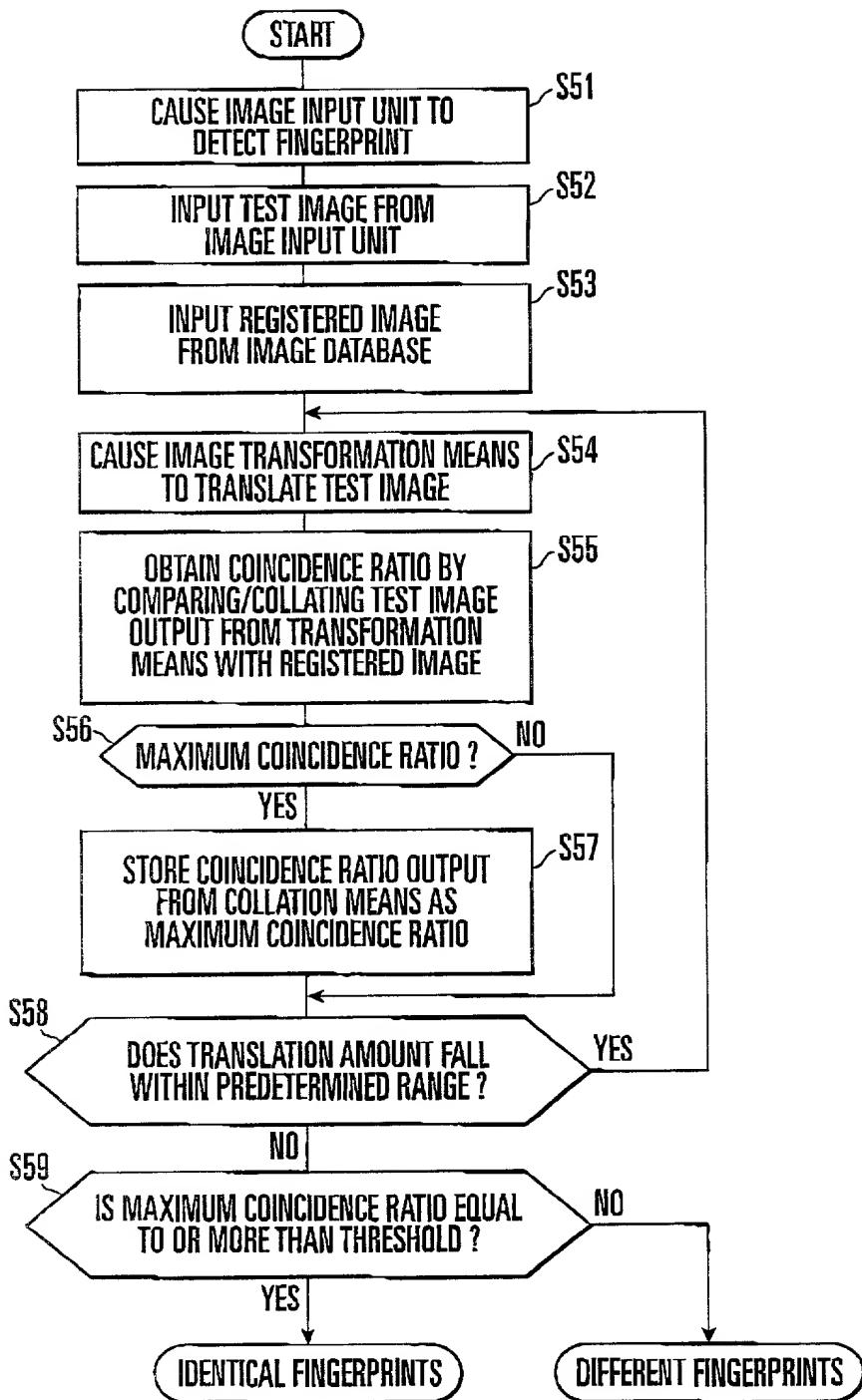


FIG. 41



**FIG. 42**  
**PRIOR ART**

FIG. 43  
PRIOR ART